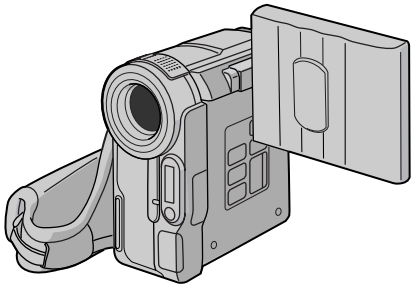
JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DX75US, GR-DX95US



Mini DV NTSC

DSC DIGITAL STILL CAMERA

For disassembling and assembling of MECHANISM ASSEMBLY, refer to the SERVICE MANUAL No.86700(MECHANISM ASSEMBLY).

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DX75US, GR-DX95US and GR-DX300US.)*

Camcorder

General

Power supply	: DC 11.0 V ⎓ (Using AC Adapter) DC 7.2 V ⎓ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 3.4 W
LCD monitor on, viewfinder off	: Approx. 4.6 W
Dimensions (W x H x D)	: 55 mm x 102 mm x 96 mm (2-1/4" x 4-1/16" x 3-13/16") (with the LCD monitor closed and the viewfinder pushed back in)
Weight	: Approx. 440 g (0.97lbs) (without grip belt) (GR-DX300) Approx. 450 g (1lbs) (without grip belt) (GR-DX95/DX75)
Operating temperature	: 0°C to 40°C (32°F to 104°F)
Operating humidity	: 35% to 80%
Storage temperature	: –20°C to 50°C (–4°F to 122°F)
Pickup	: 1/4" CCD (GR-DX300) 1/6" CCD (GR-DX95/DX75)
Lens	: F 1.8, f = 3.8 mm to 38 mm (0.15" to 1.5"), 10:1 power zoom lens (GR-DX300) F1.6, f =2.7 mm to 43.2 mm (0.11" to 1.7"), 16:1 power zoom lens (GR-DX95/DX75)
Filter diameter	: ø30.5 mm (1.2")
LCD monitor	: 3" diagonally measured, LCD panel/TFT active matrix system (GR-DX300/DX95) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DX75)
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD
Speaker	: Monaural

Digital Video Camera

Format	: DV format (SD mode)
Signal format	: NTSC standard
Recording/ Playback format	: Video: Digital component recording : Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP : 18.8 mm/s LP : 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP : 80 min. LP : 120 min.

Digital Still Camera Function

Storage media	: SD Memory Card/MultiMediaCard
Compression system	: Still image : JPEG (compatible) Moving image : MPEG4 (compatible)
File size	: 4 modes (1600 x 1200 pixels*, 1280 x 960 pixels*, 1024 x 768 pixels, 640 x 480 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images	: ☞ pg. 18.

* GR-DX300 only.

Connectors

S/AV	
S-Video output	: Y : 1 V (p-p), 75 Ω, analog C : 0.29 V (p-p), 75 Ω, analog
S-Video input	: Y : 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analog C : 0.2 V (p-p) – 0.4 V (p-p), 75 Ω, analog
Video output	: 1 V (p-p), 75 Ω, analog
Video input	: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω, analog
Audio output	: 300 mV (rms), 1 kΩ, analog, stereo
Audio input	: 300 mV (rms), 50 kΩ, analog, stereo
Edit	: ø3.5 mm (0.14"), 2-pole
DV	
Output	: 4-pin, IEEE 1394 compliant
Input	: 4-pin, IEEE 1394 compliant
USB	: 5-pin

AC Adapter

Power requirement	
U.S.A and Canada	: AC 120 V∿, 60 Hz
Other countries	: AC 110 V to 240 V∿, 50 Hz/60 Hz
Output	: DC 11 V ⎓, 1 A

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

GR-DX75US M3D327
GR-DX95US M3D337

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DIFFERENT LIST

DIFFERENT TABLE OF FEATURE

The following table indicate main different points between models GR-DX75US and GR-DX95US.

ITEM \ MODEL	GR-DX75US	GR-DX95US
LCD MONITOR	2.5 INCH	3.0 INCH
MEMORY CARD	OPTIONAL	PROVIDED(MMC 8MB)

Notes: Mark ◄— is same as left.

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

●Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded ( ) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape 3) Spacers 5) Barrier
   2) PVC tubing 4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

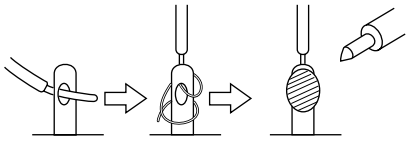


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

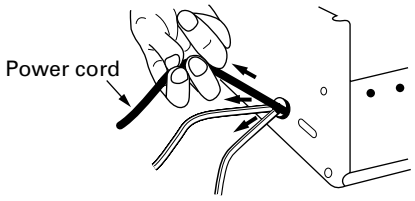


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

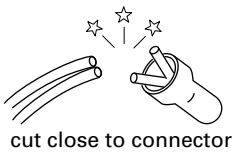


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

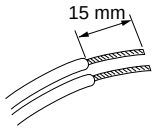


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

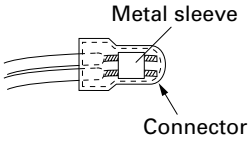


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

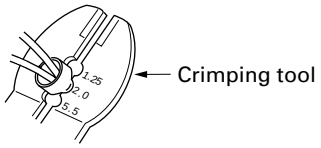


Fig.6

(5) Check the four points noted in Fig.7.

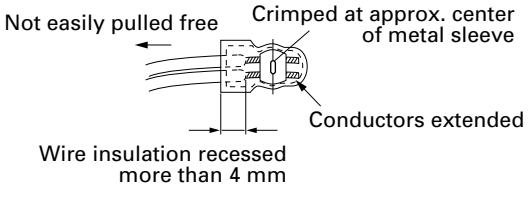

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

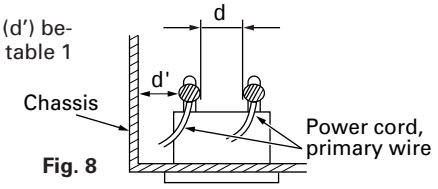


Fig. 8

4. Leakage current test
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)
Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

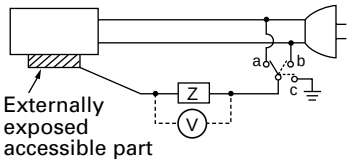


Fig. 9

5. Grounding (Class Ⅰ model only)
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

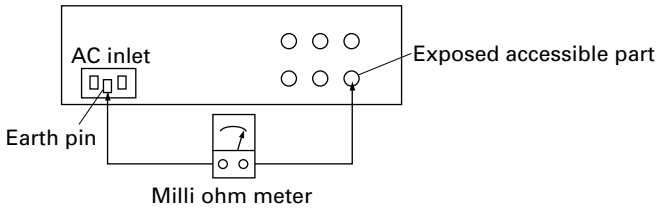


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	1 MΩ ≦ R ≦ 12 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class Ⅱ) AC 1.5 kV 1 minute (Class Ⅰ)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
DISASSEMBLY

1.1 Before disassembling

1.1.1 Precaution

- Be sure to disconnect the power supply unit prior to mounting and soldering of parts.
- Prior to removing a component part that needs to disconnect its connector(s) and its screw(s), first disconnect the wire(s) from the connector(s), and then remove the screw(s).
- Be careful not to damage the connector and wire etc. during connection and disconnection.
- When connecting the flat wire to the connector, be careful with the flat wire direction.
- Be careful in removing or handling the part to which some spacer or shield is attached for reinforcement or insulation.
- When replacing chip parts (especially IC parts), first remove the solder completely to prevent peeling of the pattern.
- Tighten screws properly during the procedures. Unless specified otherwise, tighten screws at a torque of 0.078Nom (0.8kgfocm).
- The bracketed ( ) WR of the connector symbol are assigned nos. in priority order and do not correspond to those on the spare parts list.

1.1.2 Disconnection of connectors (wires)

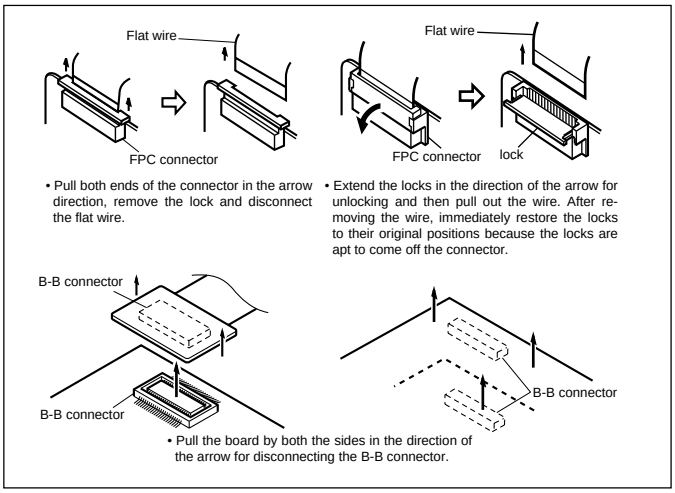

Flat wire
FPC connector
• Pull both ends of the connector in the arrow direction, remove the lock and disconnect the flat wire.
Flat wire
FPC connector
lock
• Extend the locks in the direction of the arrow for unlocking and then pull out the wire. After removing the wire, immediately restore the locks to their original positions because the locks are apt to come off the connector.
B-B connector
B-B connector
B-B connector
• Pull the board by both the sides in the direction of the arrow for disconnecting the B-B connector.

Fig. 1-1-2a CONNECTOR

1.1.3 Required disassembling tools

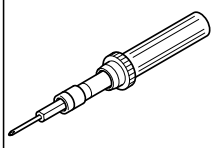
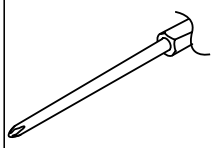
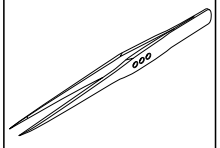
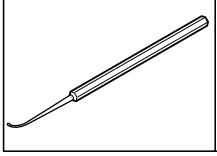
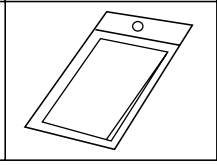
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	
		

Fig. 1-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

1.2 Removing the major parts

1.2.1 How to read the procedure table

This table shows the steps for disassembly of the major parts. Reverse these steps when re-assembling them.
<Example>

Step No.	Part Name	Fig. No.	Point	Note
[1]	Top cover, Bracket	1-3a	4(S1a),(S1b),3(L1a), 2(SD1a),(P1a),(W1a), CN1(WR1a), 2(S1c)	<Note 1a>
(*1)	(*2)	(*3)	(*4)	(*5)

(*1) Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order.
(*2) Part name to be removed or installed.
(*3) Fig. No. showing procedure or part location.
(*4) Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.
P= Spring, W= Washer, S= Screw, L= Locking tab, SD= Solder, CN**(WR**)= Remove the wire (WR**) from the connector (CN**).
(*5) Adjustment information for installation

1.2.2 Disassembly procedure

[FINAL ASS'Y]

Step No.	Part Name	Fig. No.	Point	Note
[1]	FRONT ASS'Y(G)	1-2-2a	(S132), 2(S131), (S133), (S130), TOP COVER, MIC COVER, (S125), (S126), 2(S129), MAIN CN115(WR101a), HOLDER(DV/USB)	
[2]	UPPER ASS'Y(G)	1-2-2a	2(S124), COVER(DV), (S128), (S127), BRACKET(TOP), (S120), (S122), (S121), 3(S123), MAIN CN112(WR102a), MAIN CN113(WR102b)	
[3]	LOWER ASS'Y(F)	1-2-2a	MAIN CN114(WR103a), MIC ASS'Y, MAIN CN111(WR103b), MAIN CN102(WR103c), MAIN CN101(WR103d), MAIN CN109(WR103e), (S119), 3(S118)	
[4]	MAIN BOARD ASS'Y	1-2-2a	2(S117), SHIELD PLATE, MAIN CN106(WR104a), MAIN CN110(WR104b), MAIN CN107(WR104c), MAIN CN103(WR104d), (L104a), MAIN CN108(WR104e), MAIN CN104(WR104f)	
[5]	MECHANISM ASS'Y	1-2-2a	(S116), BKT(PRE-REC), 3(S115), MECHA BKT ASS'Y	

[WIRE CONNECTION]

WR No.	CONNECTION					
WR101a	FRONT ASS'Y(G)	STROBE	CN6501		MAIN	CN115
WR102a	UPPER ASS'Y(G)	SUB OPE UNIT	—		MAIN	CN112
WR102b	UPPER ASS'Y(G)	MONITOR	CN7601		MAIN	CN113
WR103a	—	MIC ASS'Y	—		MAIN	CN114
WR103b	LOWER ASS'Y(F)	C. OPE UNIT	—		MAIN	CN111
WR103c	LOWER ASS'Y(F)	CCD	—		MAIN	CN102
WR103d	LOWER ASS'Y(F)	BATT. TERM.	—		MAIN	CN101
WR103e	LOWER ASS'Y(F)	SD	CN301		MAIN	CN109
WR104a	MECHA ASS'Y	SENSOR	—		MAIN	CN106
WR104b	MECHA ASS'Y	HEAD	—		MAIN	CN110
WR104c	MECHA ASS'Y	R. ENCODER	—		MAIN	CN107
WR104d	MECHA ASS'Y	LOAD. MOTOR	—		MAIN	CN103
WR104e	MECHA ASS'Y	CAP. MOTOR	—		MAIN	CN108
WR104f	MECHA ASS'Y	DRUM MOTOR	—		MAIN	CN104

[LOWER ASS'Y(F), LOWER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	OP F. ASS'Y		(S560), SD CN302(WR551a), (S558), BKT(OP)	
	(OP ASS'Y)		(SD551a), CCD BOARD ASS'Y	
[2]	VF ASS'Y(G)		2(S559), SD CN304(WR552a)	
[3]	SD BOARD ASS'Y		(S557), SD CN303(WR553a)	
[4]	SIDE OPE BOARD ASS'Y		2(S512), CAMERA OPE UNIT, (S522), HOLDER(G.OUTER), 2(S514), BKT(S.COVER/VF), (S521), SIDE COVER ASS'Y, KNOB(DSC)	
[5]	CASS.COVER ASS'Y		4(S515)	
	(ARM ASS'Y)		2(S513), BATT.TERM.	

[UPPER ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	MONITOR ASS'Y(G)		(S614)*, BKT(SPEAKER)*, (S617), 2(S616), 2(S611), (WR601a)	(*601a)
			2(S612), COVER(TOP/UPP)L, COVER(TOP/UPP)R	
[2]	U.CASE ASS'Y		(S610), FRAME(UPPER) ASS'Y	

(*601a) Mark*: This part was deleted on the way of production.

[MONITOR ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	M.COVER ASS'Y		3(S815), 2(S814)	
[2]	MONITOR BOARD ASS'Y		(WR802a), MONITOR CN7601(WR802b), MONITOR CN7602(WR802c), 2(SD802a), (S812), 2(L802a)	
[3]	HINGE UNIT ASS'Y		(S813)	
[4]	MONITOR CASE(3)		BACK LIGHT, LCD BKT(3INCH)2, LCD MODULE, LCD BKT(3INCH)1	

[VF ASS'Y(G)]

Step No.	Part Name	Fig. No.	Point	Note
[1]	VFBW BOARD ASS'Y		FRAME(VF)2 VFBW CN7002(WR851a), 2(S875)	
[2]	GUIDE(OUTER) ASS'Y		2(S871), (L852a), COVER(VF) ASS'Y	

<M2> FINAL ASS'Y

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
(115)(116)(117)	0.07 ±0.01 N•m
OTHER SCREW	0.09 ±0.01 N•m

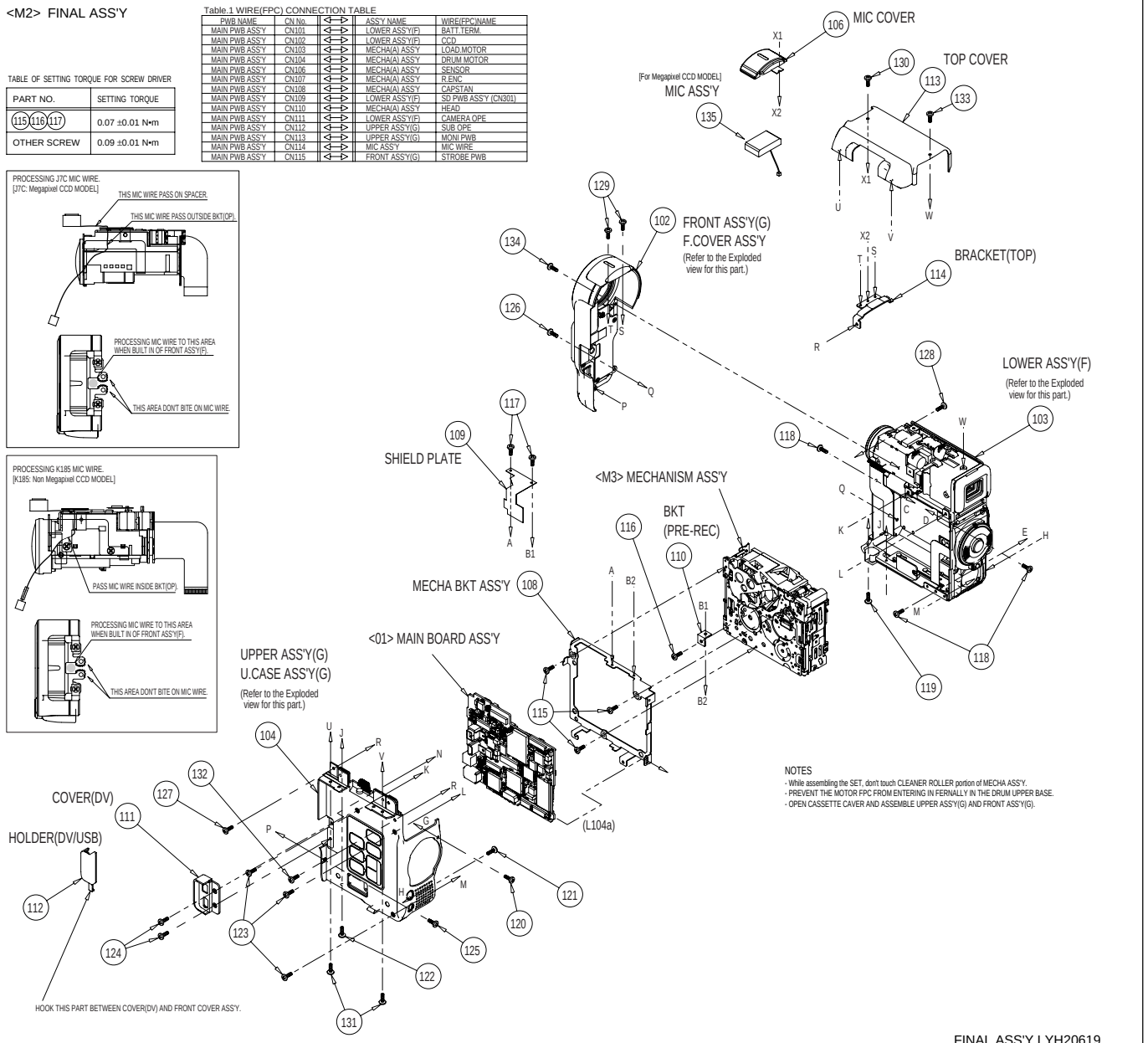
Table.1 WIRE(FPC) CONNECTION TABLE

PWB NAME	CN No.		ASS'Y NAME	WIRE(FPC)NAME
MAIN PWB ASS'Y	CN101	◁▷	LOWER ASS'Y(F)	BATT.TERM.
MAIN PWB ASS'Y	CN102	◁▷	LOWER ASS'Y(F)	CCD
MAIN PWB ASS'Y	CN103	◁▷	MECHA(A) ASS'Y	LOAD.MOTOR
MAIN PWB ASS'Y	CN104	◁▷	MECHA(A) ASS'Y	DRUM MOTOR
MAIN PWB ASS'Y	CN106	◁▷	MECHA(A) ASS'Y	SENSOR
MAIN PWB ASS'Y	CN107	◁▷	MECHA(A) ASS'Y	R.ENC
MAIN PWB ASS'Y	CN108	◁▷	MECHA(A) ASS'Y	CAPSTAN
MAIN PWB ASS'Y	CN109	◁▷	LOWER ASS'Y(F)	SD PWB ASS'Y (CN301)
MAIN PWB ASS'Y	CN110	◁▷	MECHA(A) ASS'Y	HEAD
MAIN PWB ASS'Y	CN111	◁▷	LOWER ASS'Y(F)	CAMERA OPE
MAIN PWB ASS'Y	CN112	◁▷	UPPER ASS'Y(G)	SUB OPE
MAIN PWB ASS'Y	CN113	◁▷	UPPER ASS'Y(G)	MONI PWB
MAIN PWB ASS'Y	CN114	◁▷	MIC ASS'Y	MIC WIRE
MAIN PWB ASS'Y	CN115	◁▷	FRONT ASS'Y(G)	STROBE PWB

PROCESSING J7C MIC WIRE.
[J7C: Megapixel CCD MODEL]

THIS MIC WIRE PASS ON SPACER.
THIS MIC WIRE PASS OUTSIDE BKT(DP).
PROCESSING MIC WIRE TO THIS AREA WHEN BUILT IN OF FRONT ASS'Y(F).
THIS AREA DON'T BITE ON MIC WIRE.

PROCESSING K185 MIC WIRE.
[K185: Non Megapixel CCD MODEL]



NOTES
- While assembling the SET, don't touch CLEANER ROLLER portion of MECHA ASS'Y.
- PREVENT THE MOTOR FPC FROM ENTERING IN FERNALLY IN THE DRUM UPPER BASE.
- OPEN CASSETTE CAVER AND ASSEMBLE UPPER ASS'Y(G) AND FRONT ASS'Y(G).

FINAL ASS'Y LYH20619
CLEANER ASS'Y LYH20615

TABLE OF SETTING TORQUE FOR SCREW DRIVER

PART NO.	SETTING TORQUE
(188)(189)	0.069 ±0.007 N•m

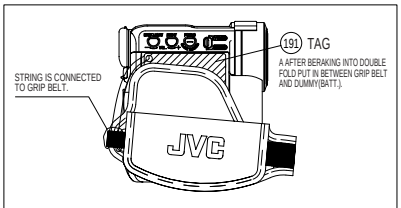


FIG. PROCESSING TAG

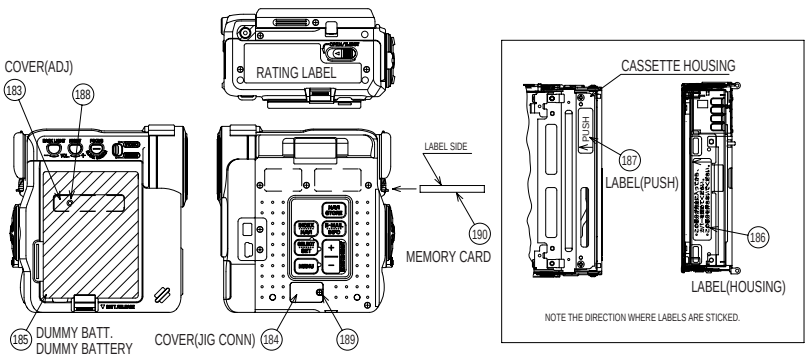


Fig. 1-2-2a FINAL ASS'Y

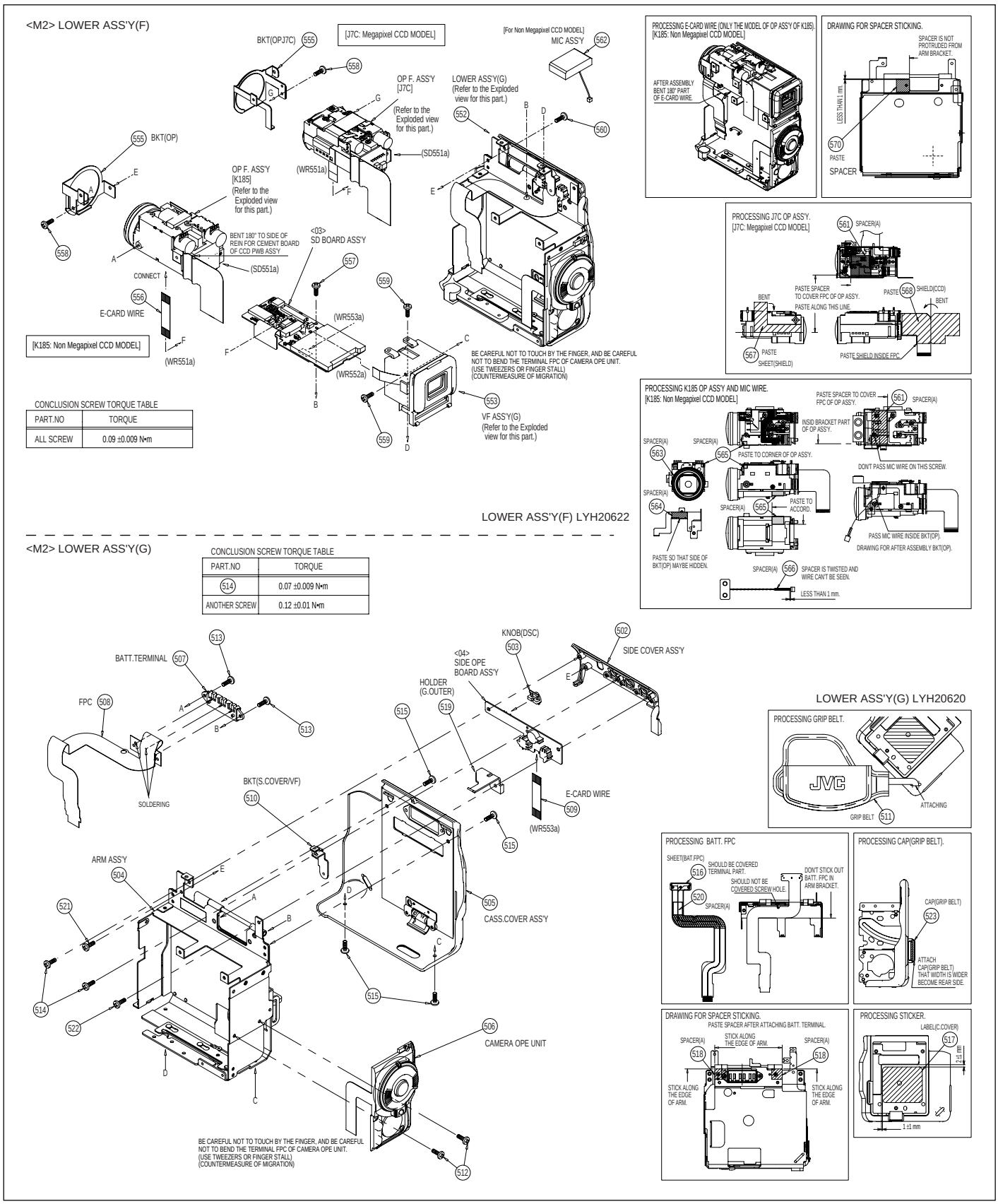
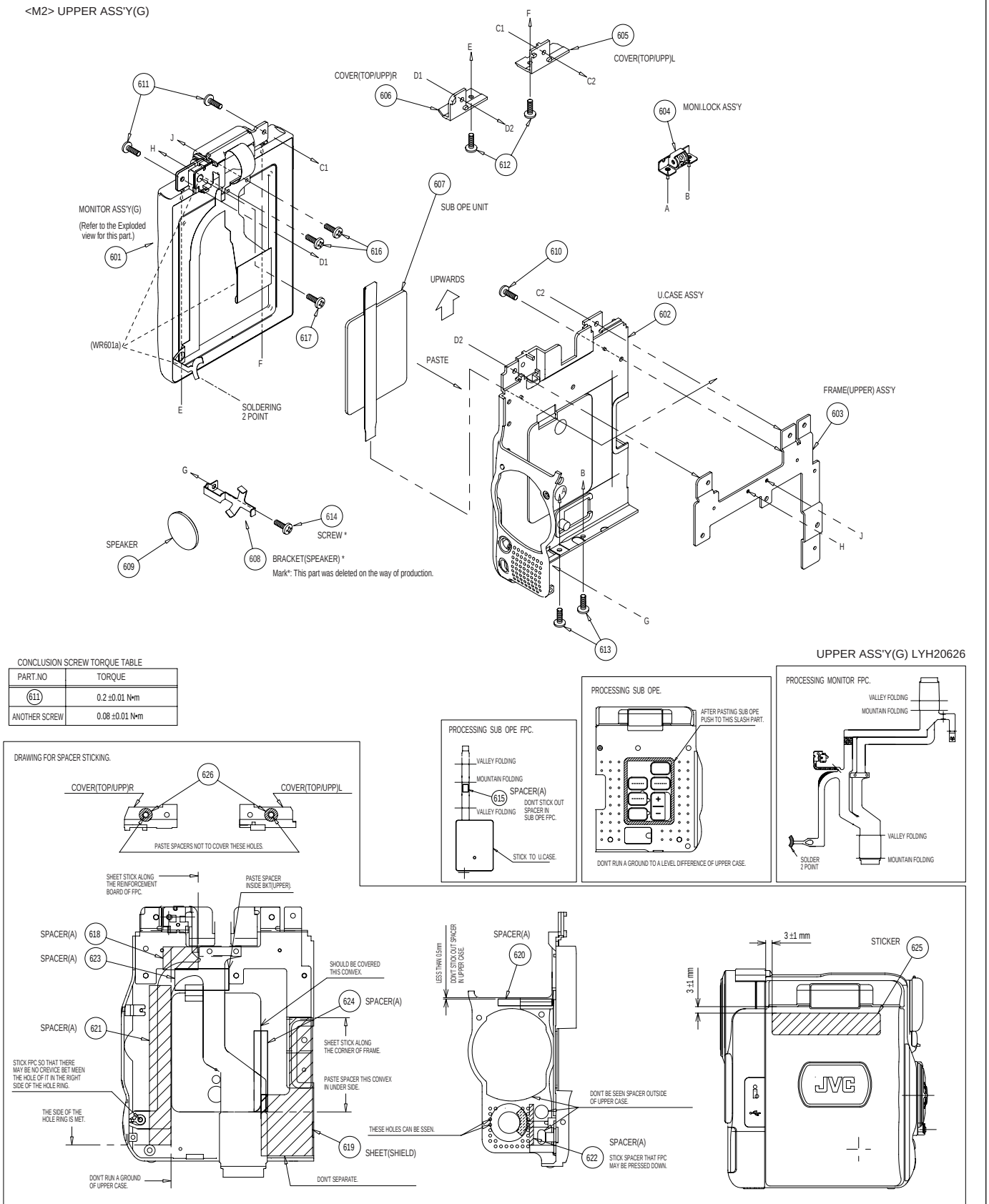


Fig. 1-2-2b LOWER ASS'Y(F), LOWER ASSY(G)

<M2> UPPER ASS'Y(G)



UPPER ASS'Y(G) LYH20626

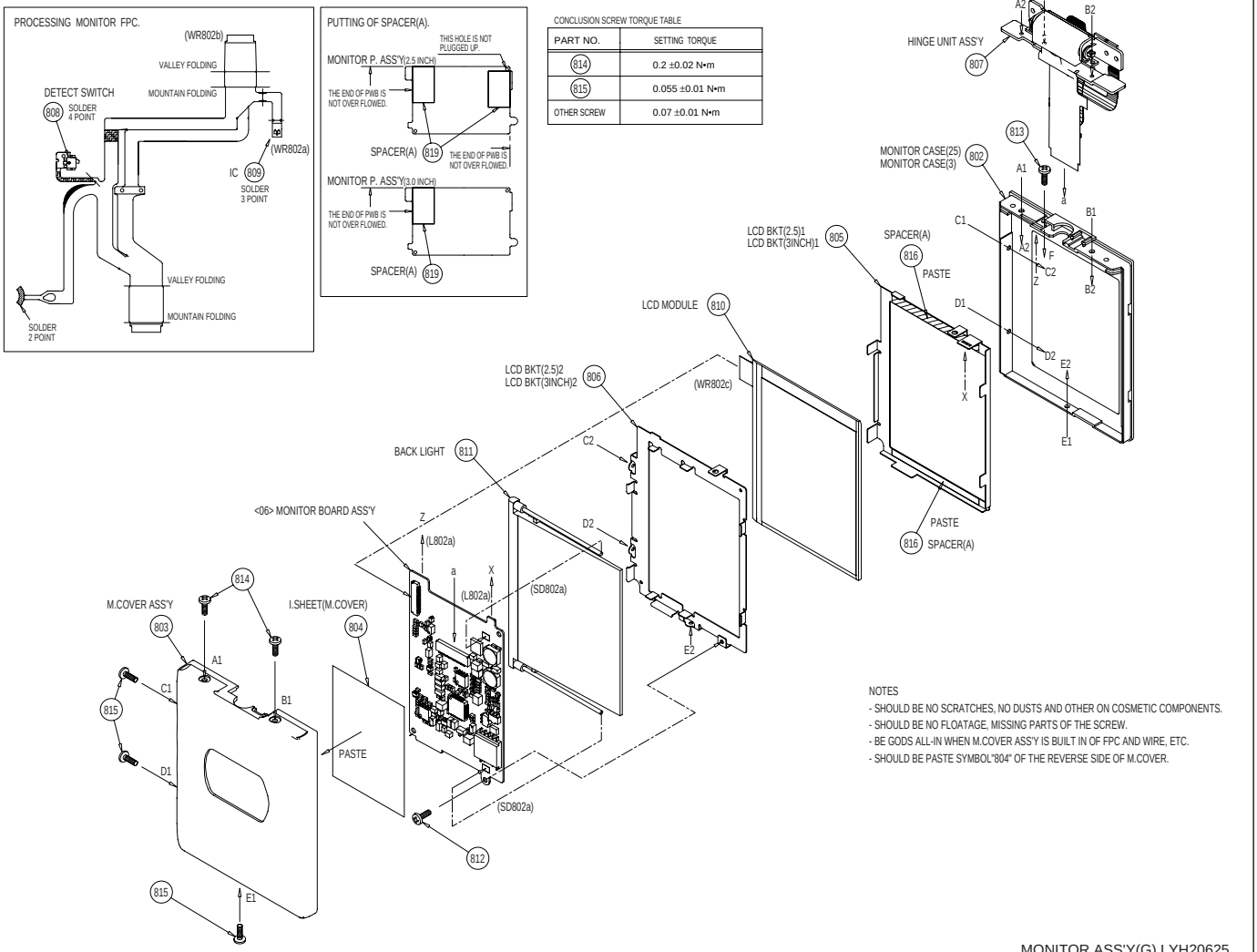
CONCLUSION SCREW TORQUE TABLE

PART.NO	TORQUE
(611)	0.2 ±0.01 N•m
ANOTHER SCREW	0.08 ±0.01 N•m

DRAWING FOR SPACER STICKING.
626
COVER(TOP/UPP)R
COVER(TOP/UPP)L
PASTE SPACERS NOT TO COVER THESE HOLES.
SHEET STICK ALONG THE REINFORCEMENT BOARD OF FPC.
PASTE SPACER INSIDE BKT(UPPER).
SPACER(A) 618
SPACER(A) 623
SPACER(A) 621
SHOULD BE COVERED THIS CONVEX.
624 SPACER(A)
SHEET STICK ALONG THE CORNER OF FRAME.
STICK FPC SO THAT THERE MAY BE NO CREVICE BET MEEN THE HOLE OF IT IN THE RIGHT SIDE OF THE HOLE RING.
PASTE SPACER THIS CONVEX IN UNDER SIDE.
THE SIDE OF THE HOLE RING IS MET.
THESE HOLES CAN BE SSEN.
619 SHEET(SHIELD)
DON'T RUN A GROUND OF UPPER CASE.
DON'T SEPARATE.
PROCESSING SUB OPE FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
SPACER(A)
615
VALLEY FOLDING
DON'T STICK OUT SPACER IN SUB OPE FPC.
STICK TO U.CASE.
PROCESSING SUB OPE.
AFTER PASTING SUB OPE PUSH TO THIS SLASH PART.
DON'T RUN A GROUND TO A LEVEL DIFFERENCE OF UPPER CASE.
PROCESSING MONITOR FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
VALLEY FOLDING
SOLDER 2 POINT
MOUNTAIN FOLDING
LESS THAN 0.5mm
DON'T STICK OUT SPACER IN UPPER CASE.
SPACER(A)
620
DON'T BE SEEN SPACER OUTSIDE OF UPPER CASE.
SPACER(A)
622
STICK SPACER THAT FPC MAY BE PRESSED DOWN.
3 ±1 mm
3 ±1 mm
STICKER
625
JVC

Fig. 1-2-2c UPPER ASS'Y(G)

<M2> MONITOR ASS'Y(G)



MONITOR ASS'Y(G) LYH20625

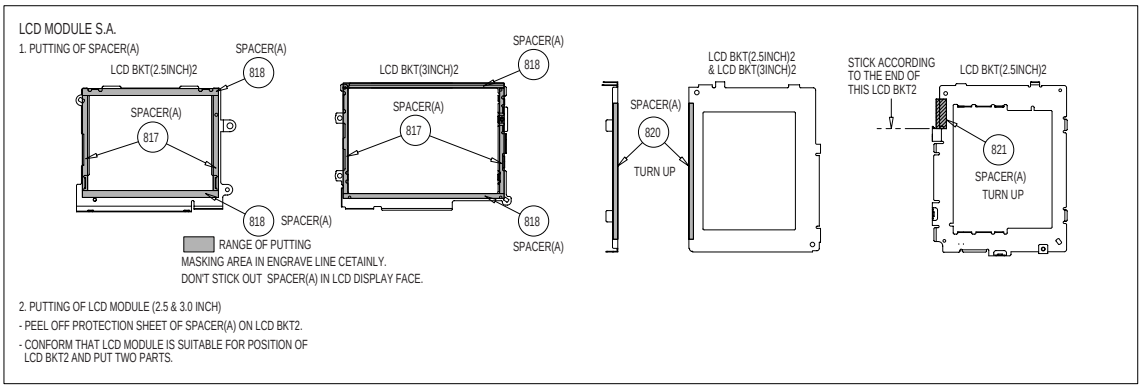

LCD MODULE S.A.
1. PUTTING OF SPACER(A)
SPACER(A) 818
LCD BKT(2.5INCH)2
SPACER(A) 817
818 SPACER(A)
LCD BKT(3INCH)2
SPACER(A) 818
SPACER(A) 817
818 SPACER(A)
RANGE OF PUTTING
MASKING AREA IN ENGRAVE LINE CETAINLY.
DON'T STICK OUT SPACER(A) IN LCD DISPLAY FACE.
LCD BKT(2.5INCH)2 & LCD BKT(3INCH)2
SPACER(A) 820
TURN UP
STICK ACCORDING TO THE END OF THIS LCD BKT2
LCD BKT(2.5INCH)2
821
SPACER(A) TURN UP
2. PUTTING OF LCD MODULE (2.5 & 3.0 INCH)
- PEEL OFF PROTECTION SHEET OF SPACER(A) ON LCD BKT2.
- CONFORM THAT LCD MODULE IS SUITABLE FOR POSITION OF LCD BKT2 AND PUT TWO PARTS.

Fig. 1-2-2d MONITOR ASS'Y(G)

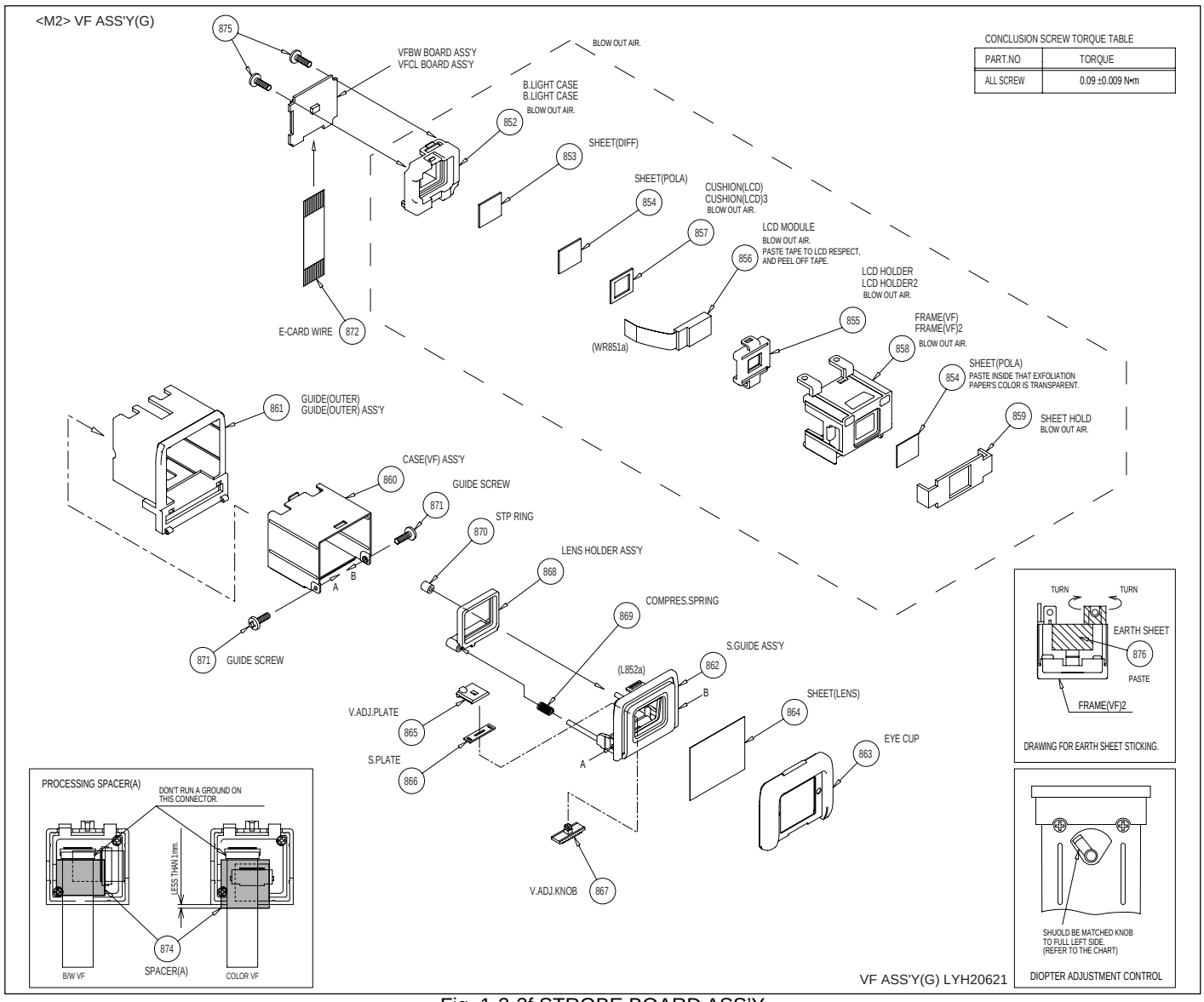


Fig. 1-2-2f STROBE BOARD ASS'Y

1.3 Manually removing the cassette tape

The following procedure describes a simplified method of ejecting the cassette tape in case it is not possible to eject it, due to an electrical failure.

Be careful not to damage any of the parts or the tape when performing repairs or maintenance work.

(1) Remove the Power Unit (battery, DC code, etc.) from the main unit.
(2) Open the Cassette cover.
(3) Attach a piece of PVC tape at the front of the Cassette housing.
    This helps prevent the tape from being damaged when the Cassette housing assembly is moved upward at the unloading end.
(4) Apply DC3V to the electrode on the top surface of the Loading motor assembly to set the Mechanism assembly to the eject mode.
    Unloading end is eject mode.
(5) If there is any slack tape in the tape transport system, wind it inside the cassette tape by turning the Reel disk (SUP) from the backside of the Slide deck assembly.
(6) Peel off the PVC tape and take out the cassette tape from the Cassette housing.
    Make sure that grease or a similar substance is not attached to the surface of the tape.
    Similarly, also make sure that grease or a similar substance is not attached on the Mechanism assembly.

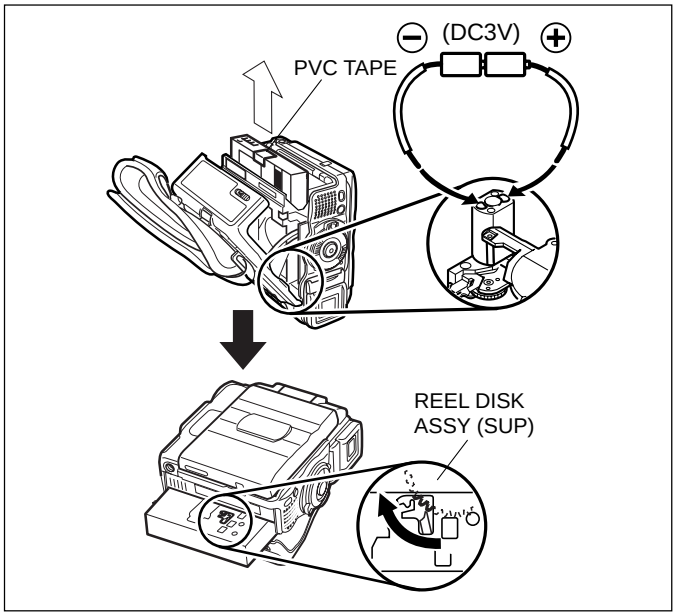
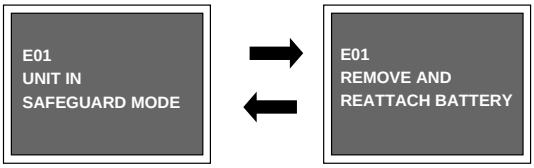


Fig. 1-3a

1.4 EMERGENCY DISPLAY

Whenever some abnormal signal is input to the syscon CPU, an error number (E01, as an example) is displayed on the LCD monitor or (in the Electronic view finder).
In every error status, such the message as shown below alternately appear over and over.
In an emergency mode, all operations except turning on/off the Power switch are ineffectual.

Example (in case of the error number E01):



LCD display	Emergency mode	Details	Possible cause
E01	LOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the loading direction for 4 seconds or more. This error is defined as [E01].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift. 3. No power is supplied to the loading MDA.
E02	UNLOADING	In the case the encoder position is not shifted to the next point though the loading motor has rotated in the unloading direction for 4 seconds or more. This error is defined as [E02].	1. The mechanism is locked during mode shift. 2. The mechanism is locked at the mechanism loading end, because the encoder position is skipped during mechanism mode shift.
E03	TU & SUP REEL FG	In the case no REEL FG is produced for 4 seconds or more in the capstan rotation mode after loading was complete, the mechanism mode is shifted to STOP with the pinch roller set off. This error is defined as [E03]. However, no REEL EMG is detected in the SLW/ STILL mode.	1. The idler gear does not engage with the reel disk well. 2. Though the idler gear and reel disk are engaged with each other, the tape is not wound because of overload to the mechanism. 3. No FG pulse is output from the reel sensor. 4. No power is supplied to the reel sensor. 5. Tape transport operation takes place with a cassette having no tape inside. 6. The tape slackens and no pulse is produced until the slack is taken up and the tape comes into the normal status.
E04	DRUM FG	In the case there is no DRUM FG input in the drum rotation mode for 4 seconds or more. This error is defined as [E04], and the mechanism mode is shifted to STOP with the pinch roller set off.	1. The drum cannot be started or drum rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. 2) The tape is damaged or soiled with grease, etc. 2. The DRUM FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the DRUM FG pulse generator (hall element). 3. No drum control voltage is supplied to the MDA. 4. No power is supplied to the DRUM MDA.
E05	—	—	—
E06	CAPSTAN FG	In the case no CAPSTAN FG is produced in the capstan rotation mode for 2 seconds or more. This error is defined as [E06], and the mechanism mode is shifted to STOP with the pinch roller set off. However, no CAPSTAN EMG is detected in the STILL/FF/ REW mode.	1. The CAPSTAN FG signal is not received by the syscon CPU. 1) Disconnection in the middle of the signal line. 2) Failure of the CAPSTAN FG pulse generator (MR element). 2. No capstan control voltage is supplied to the MDA. 3. No power is supplied to the CAPSTAN MDA. 4. The capstan cannot be started or capstan rotation is stopped because tape transport load is too high. 1) Tape tension is extremely high. (Mechanical locking) 2) The tape is damaged or soiled with grease, etc. (Tape tangling occurs, etc.)

Fig. 1-4a

SECTION 3
ADJUSTMENT

3.1 Before adjustment

3.1.1 Precaution

This model does not contain adjustment controls (VR).
General deck system, camera system and monitor system adjustment are not required. However, if circuit board mounting the EEPROM needs replacement, please use original EEPROM on to new board. Then adjustment are not required. And if parts such as the following need replacement, special computerized adjustment are required. Electrical adjustment with personal computer is setup and it adjusts using a service support system. Please contact to JVC Service for detail information.

- OP BLOCK ASSEMBLY
- EEPROM (IC1003 of MAIN board) [Megapixel CCD MODEL]
- EEPROM (IC1005 of MAIN board) [Non Megapixel CCD MODEL]

In the event of malfunction with electrical circuits, troubleshooting with the aid of proper test instruments most be done first, and then commence necessary repair, replacement and adjustment, etc.

- In case of wiring to chip test points for measurement, use IC clips, etc. to avoid any stress.
- Since connectors are fragile, carefully handle them in disconnecting and connecting.
- In the following work, use the patch cords as required. For details of the patch cords, see the "BOARD INTERCONNECTIONS" (CHARTS AND DIAGRAMS).

3.1.2 Required test equipments

- AC power adapter
- Color television or monitor
- Oscilloscope
  (dual-trace type, observable 100 MHz or higher frequency)
  It is recommended to use one observable 300 MHz or higher frequency.
- Digital voltmeter
- Frequency counter (with threshold level adjuster)
- Personal computer

3.1.3 Required adjustment tools

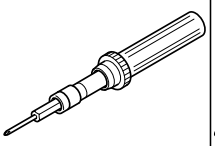
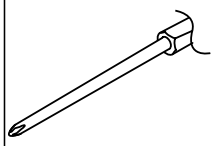
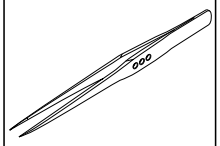
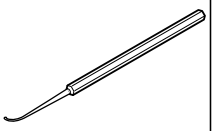
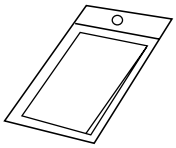
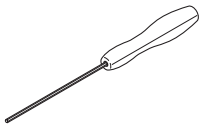
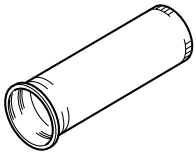
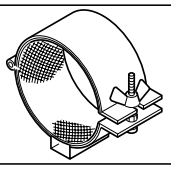
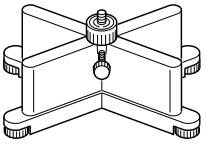
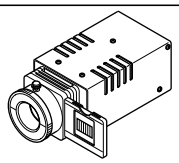
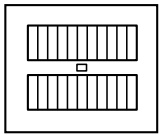
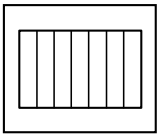
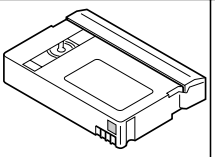
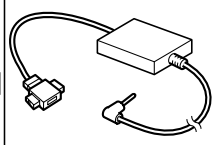
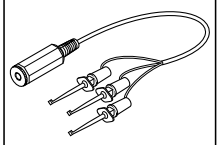
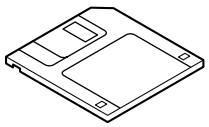
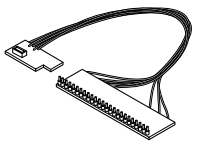
Torque driver YTU94088	Bit YTU94088-003	Tweezers P-895
		
Chip IC replacement jig PTS40844-2	Cleaning cloth KSMM-01	Guide driver (Hexagonal) D-770-1.27
		
INF adjustment lens YTU92001B	INF lens holder YTU94087	Camera stand YTU93079
		
Light box assembly YTU93096A	Gray scale chart YTU94133A	Color bar chart YTU94133C
		
Alignment tape MC-*	PC cable QAM0099-***	Communication cable YTU93107A
		
Service support system YTU94057-**	Jig connector cable YTU93106B	Extension connector YTU94145C-30
		

Table 3-1-3a

- Torque driver
  Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
- Bit
  This bit is slightly longer than those set in conventional torque drivers.
- Tweezers
  To be used for removing and installing parts and wires.
- Chip IC replacement jig
  To be used for replacement of IC.
- Cleaning cloth
  Recommended the Cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.
- Guide driver (Hexagonal)
  To be used for mechanism compatibility adjustment.
- INF adjustment lens
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- INF lens holder
  To be used together with the Camera stand for operating the Videocamera in the stripped-down condition such as the status without the exterior parts or for using commodities that are not yet conformable to the interchangeable ring.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Camera stand
  To be used together with the INF adjustment lens holder.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Light box assembly
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Gray scale chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Color bar chart
  To be used for adjustment of the camera system.
  For the usage of this tool, refer to the Service Bulletin No. YA-SB-10035.
- Alignment tape
  To be used for mechanism compatibility adjustment.
  MC-1 [For NTSC model]
  MC-2 [For PAL model]
- PC cable
  To be used to connect the Videocamera and a personal computer with each other when a personal computer is used for adjustment.
  QAM0099-001 [For J* model]
  QAM0099-002 [For U* and K* models]
  QAM0099-003 [For E* models]
  QAM0099-005 [For A* models]
- Communication cable
  Connect the Communication cable between the PC cable and Jig connector cable when performing a PC adjustment.
- Service support system
  To be used for adjustment with a personal computer. Software can be downloaded also from JS-net.
- Jig connector cable
  Connected to CN for Jig of the circuit board and used for electrical adjustment, etc.
- Extension connector
  Connect this extension connector to the connector of the Jig connector cable for extending the cable connector.

3.1.4 Jig connector cable connection

3.1.4.1 Preparation

The Jig connector cable (YTU93106B) has been provided for GR-DV2000 series. And it has been connected only 9 terminals for low cost, although it has 30 terminals.
Now it can be used another series camcorder, but all the terminals have to be connected by soldering wires. Refer to the Service Bulletin (No. YA-SB-10082), and connect all the terminals.

3.1.4.2 Connection

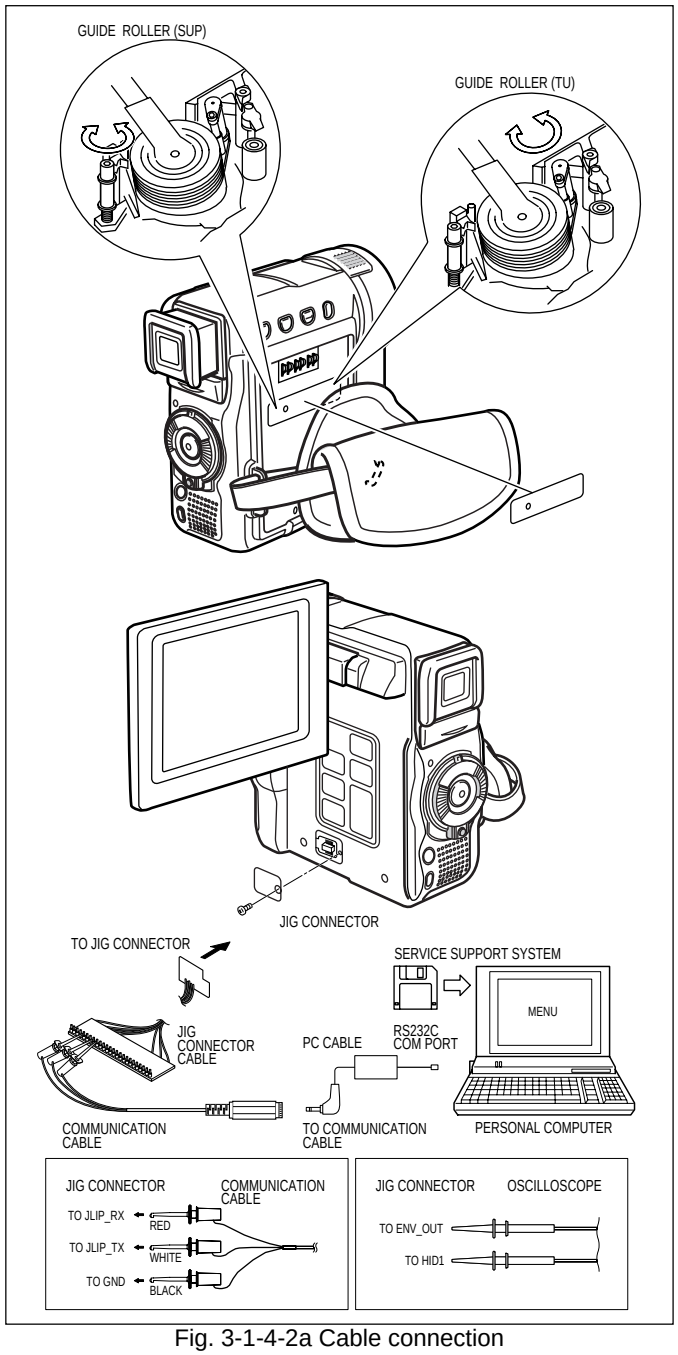


Fig. 3-1-4-2a Cable connection

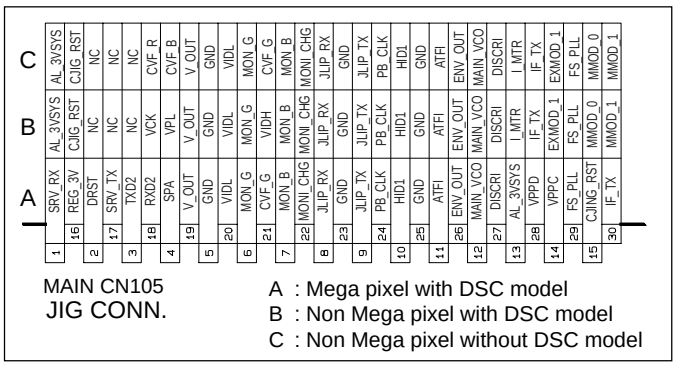


Fig. 3-1-4-2b Schematic diagram of Jig CN

3.2 Mechanism compatibility adjustment

3.2.1 Tape pattern check

(1) Play back the tape for compatibility adjustment.
(2) Apply the external trigger signal to HID1, to observe the waveform of the ENV_OUT.
(3) Set to the manual tracking mode (ATF OFF).
(4) Make sure that there is no significant level drop of the waveform caused by the tracking operation, with its generally parallel and linear variation ensured. Perform the following adjustments when required.
(5) Reduce the waveform by the tracking operation. If a drop in level is found on the left side, turn the guide roller (supply side) to make the waveform linear.
If a drop in level is on the right side, likewise turn the guide roller (take-up side) to make it linear.
(6) Unload the cassette tape once, play back the tape again and confirm that the waveform is flat.
(7) Record at the recording tape, and play back the recorded signal.
(8) Confirm that the waveform is flat.

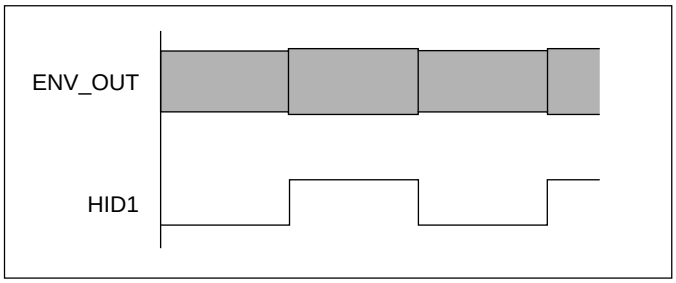


Fig. 3-2-1a

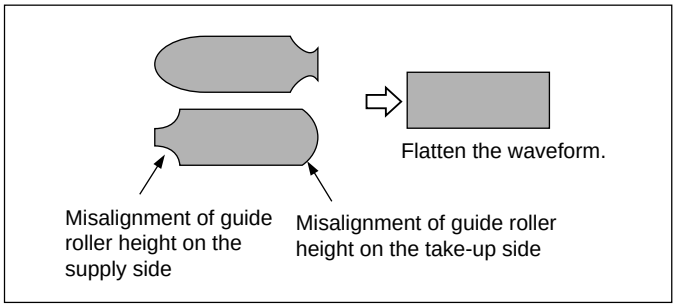

Flatten the waveform.
Misalignment of guide roller height on the supply side
Misalignment of guide roller height on the take-up side

Fig. 3-2-1b

3.3 Electrical adjustment

Adjustment is performed by using personal computer. Read README.TXT file to use the software for Service support system properly.
As for the connection of cables, see Fig. Cable connection.

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Head office : 21 Finchdene Square Scarborough, Ontario M1X 1A7 (416)293-1311

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SECTION 5
PARTS LIST

5.1 EXPLODED VIEW

SAFETY PRECAUTION

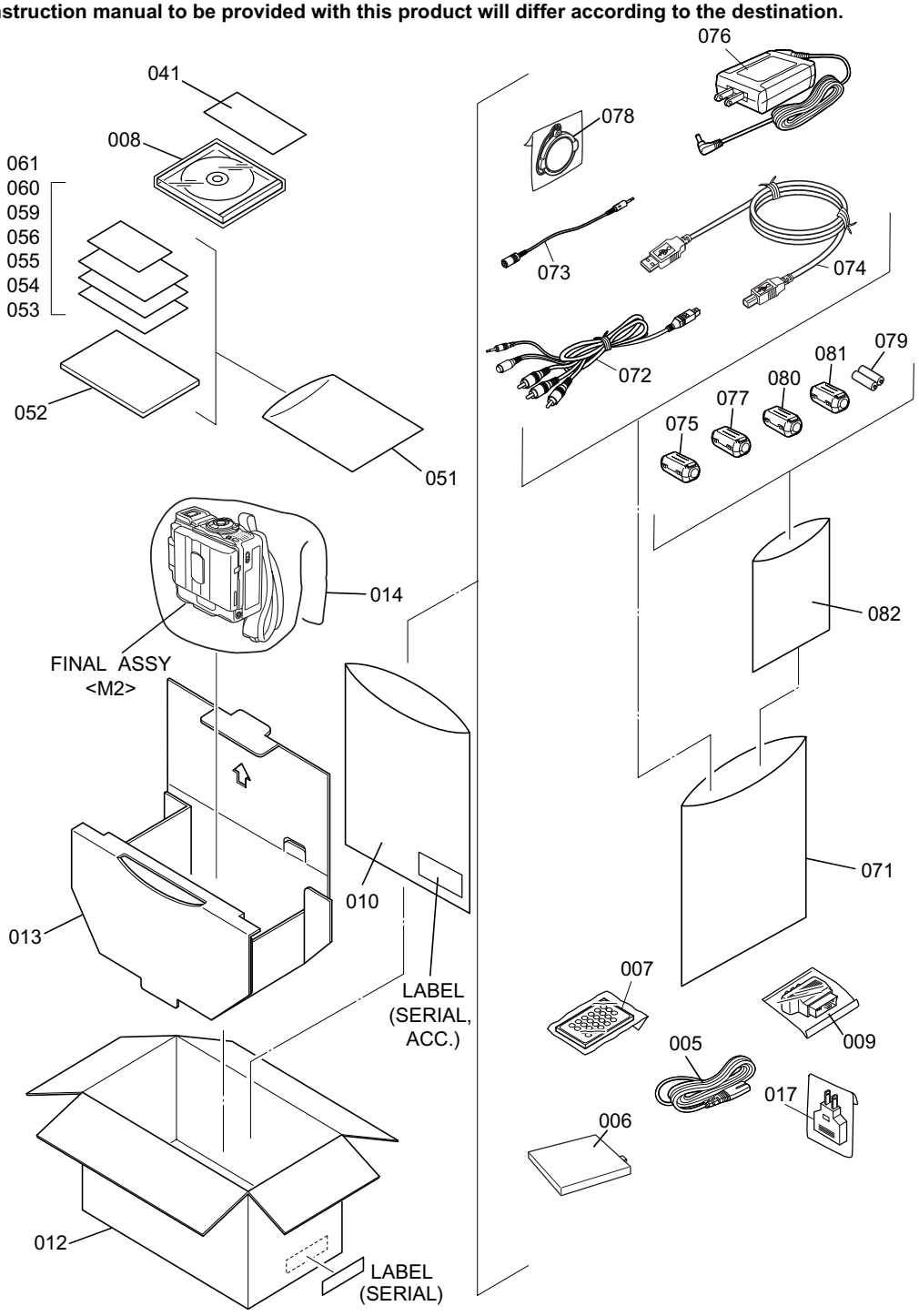
Parts identified by the ⚠ symbol are critical for safety. Replace only with specified part numbers.

BEWARE OF BOGUS PARTS

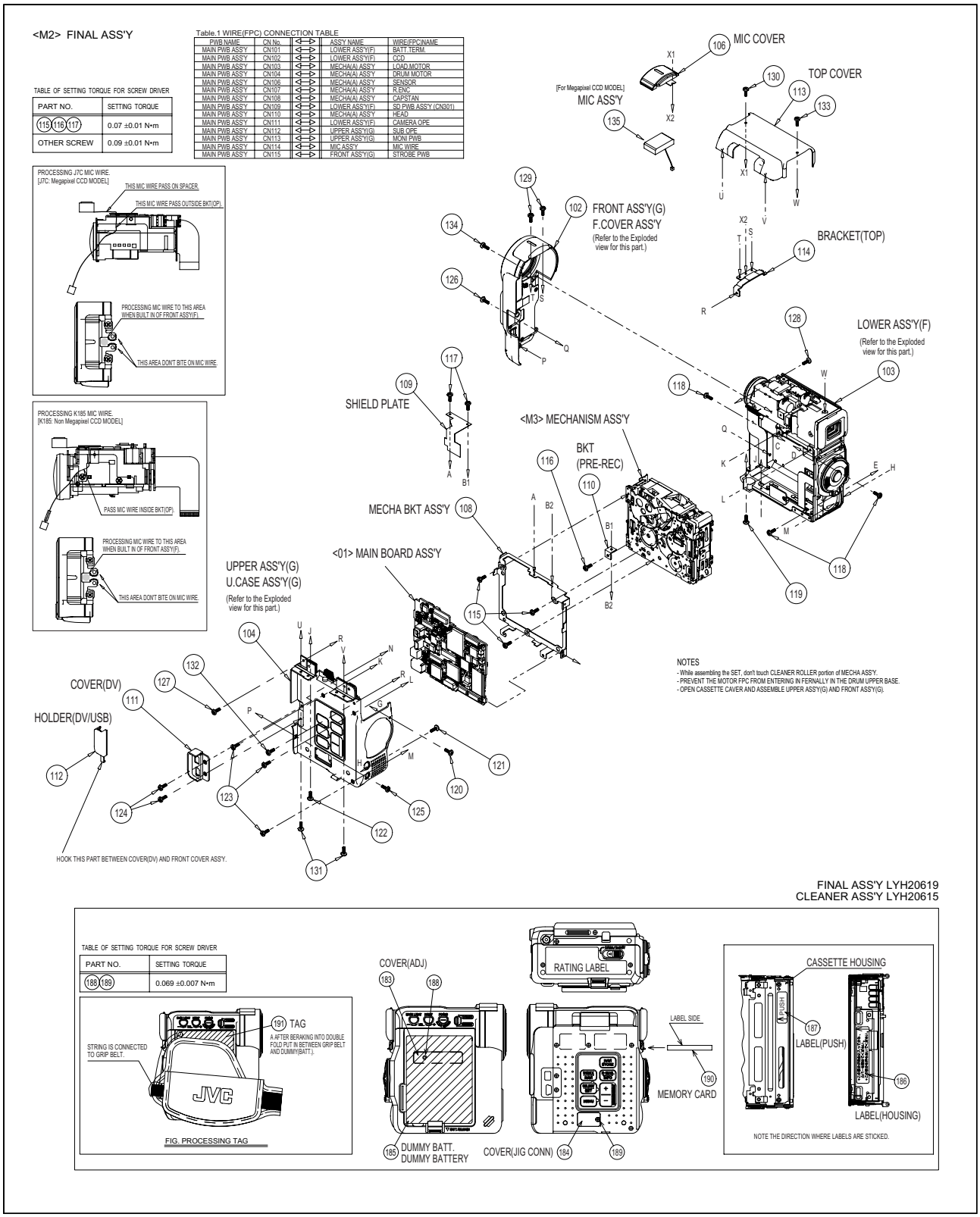
Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.

5.1.1 PACKING AND ACCESSORY ASSEMBLY <M1>

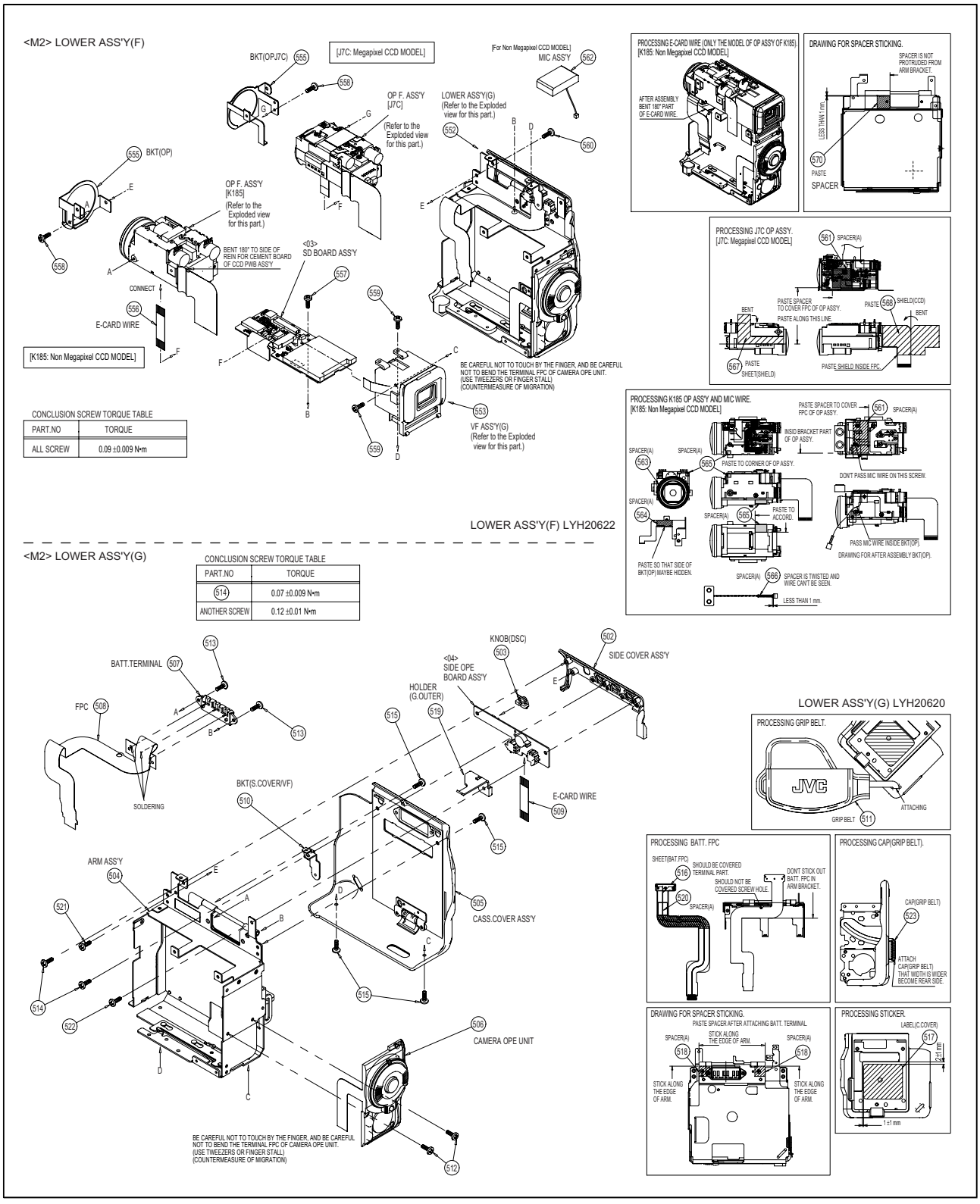
The instruction manual to be provided with this product will differ according to the destination.



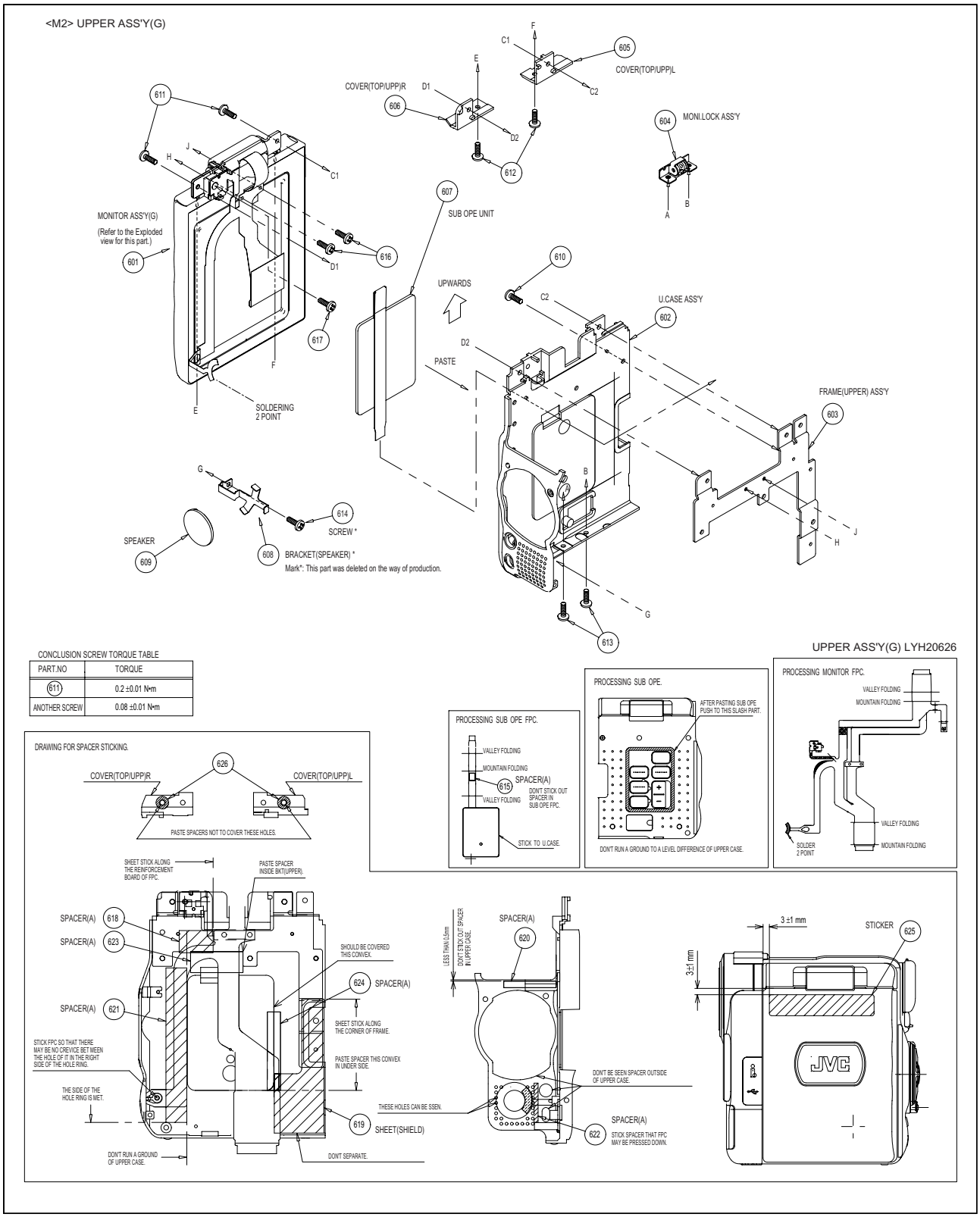
5.1.2 FINAL ASSEMBLY<M2>


<M2> FINAL ASS'Y
Table.1 WIRE(FPC) CONNECTION TABLE
PWB NAME | CN No. | | ASS'Y NAME | WIRE(FPC)NAME
MAIN PWB ASS'Y | CN101 | LOWER ASS'Y(F) | BATT.TERM.
MAIN PWB ASS'Y | CN102 | LOWER ASS'Y(F) | CCD
MAIN PWB ASS'Y | CN103 | MECHA(A) ASS'Y | LOAD MOTOR
MAIN PWB ASS'Y | CN104 | MECHA(A) ASS'Y | DRUM MOTOR
MAIN PWB ASS'Y | CN106 | MECHA(A) ASS'Y | SENSOR
MAIN PWB ASS'Y | CN107 | MECHA(A) ASS'Y | R.ENC
MAIN PWB ASS'Y | CN108 | MECHA(A) ASS'Y | CAPSTAN
MAIN PWB ASS'Y | CN109 | LOWER ASS'Y(F) | SD PWB ASS'Y (CN301)
MAIN PWB ASS'Y | CN110 | MECHA(A) ASS'Y | HEAD
MAIN PWB ASS'Y | CN111 | LOWER ASS'Y(F) | CAMERA OPE
MAIN PWB ASS'Y | CN112 | UPPER ASS'Y(G) | SUB OPE
MAIN PWB ASS'Y | CN113 | UPPER ASS'Y(G) | MONI PWB
MAIN PWB ASS'Y | CN114 | MIC ASS'Y | MIC WIRE
MAIN PWB ASS'Y | CN115 | FRONT ASS'Y(G) | STROBE PWB
TABLE OF SETTING TORQUE FOR SCREW DRIVER
PART NO. | SETTING TORQUE
115 116 117 | 0.07 ±0.01 N•m
OTHER SCREW | 0.09 ±0.01 N•m
PROCESSING J7C MIC WIRE.
[J7C: Megapixel CCD MODEL]
THIS MIC WIRE PASS ON SPACER.
THIS MIC WIRE PASS OUTSIDE BKT(OP).
PROCESSING MIC WIRE TO THIS AREA WHEN BUILT IN OF FRONT ASS'Y(F).
THIS AREA DON'T BITE ON MIC WIRE.
PROCESSING K185 MIC WIRE.
[K185: Non Megapixel CCD MODEL]
PASS MIC WIRE INSIDE BKT(OP).
PROCESSING MIC WIRE TO THIS AREA WHEN BUILT IN OF FRONT ASS'Y(F).
THIS AREA DON'T BITE ON MIC WIRE.
106 MIC COVER
[For Megapixel CCD MODEL]
MIC ASS'Y
135
130 TOP COVER
113
133
129
102 FRONT ASS'Y(G)
F.COVER ASS'Y
(Refer to the Exploded view for this part.)
134
126
BRACKET(TOP)
114
128 LOWER ASS'Y(F)
(Refer to the Exploded view for this part.)
103
118
117
109
SHIELD PLATE
<M3> MECHANISM ASS'Y
BKT
(PRE-REC)
116
110
MECHA BKT ASS'Y 108
<01> MAIN BOARD ASS'Y
UPPER ASS'Y(G)
U.CASE ASS'Y(G)
(Refer to the Exploded view for this part.)
115
119
104
132
127
COVER(DV)
111
HOLDER(DV/USB)
112
121
120
123
124
125
122
131
HOOK THIS PART BETWEEN COVER(DV) AND FRONT COVER ASS'Y.
NOTES
- While assembling the SET, don't touch CLEANER ROLLER portion of MECHA ASS'Y.
- PREVENT THE MOTOR FPC FROM ENTERING IN FERNALLY IN THE DRUM UPPER BASE.
- OPEN CASSETTE CAVER AND ASSEMBLE UPPER ASS'Y(G) AND FRONT ASS'Y(G).
FINAL ASS'Y LYH20619
CLEANER ASS'Y LYH20615
TABLE OF SETTING TORQUE FOR SCREW DRIVER
PART NO. | SETTING TORQUE
188 189 | 0.069 ±0.007 N•m
191 TAG
A AFTER BERAKING INTO DOUBLE FOLD PUT IN BETWEEN GRIP BELT AND DUMMY(BATT.).
STRING IS CONNECTED TO GRIP BELT.
JVC
FIG. PROCESSING TAG
COVER(ADJ)
183
188
RATING LABEL
LABEL SIDE
190
MEMORY CARD
185 DUMMY BATT.
DUMMY BATTERY
COVER(JIG CONN) 184
189
CASSETTE HOUSING
PUSH
187
LABEL(PUSH)
186
LABEL(HOUSING)
NOTE THE DIRECTION WHERE LABELS ARE STICKED.

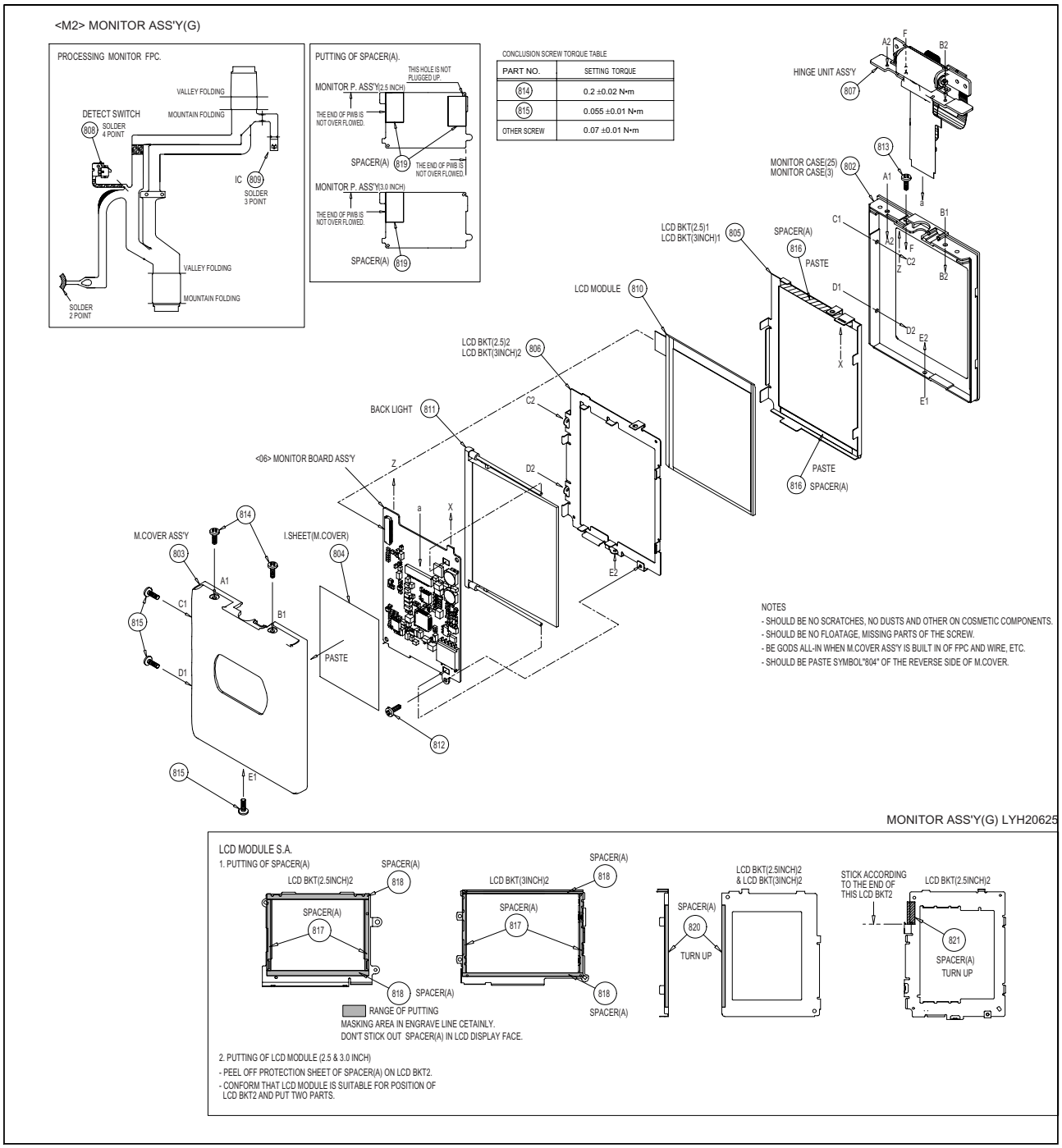
5.1.3 LOWER ASSEMBLY(F) AND LOWER ASSEMBLY(G)<M2>


<M2> LOWER ASS'Y(F)
[J7C: Megapixel CCD MODEL]
[For Non Megapixel CCD MODEL]
BKT(OPJ7C) 555
556
OP F. ASS'Y [J7C]
(Refer to the Exploded view for this part.)
LOWER ASS'Y(G) (Refer to the Exploded view for this part.)
MIC ASS'Y 562
552
560
555 BKT(OP)
OP F. ASS'Y [K185]
(Refer to the Exploded view for this part.)
BENT 180° TO SIDE OF REIN FOR CEMENT BOARD OF CCD PWB ASS'Y
<03> SD BOARD ASS'Y
557
559
CONNECT
556
E-CARD WIRE
[K185: Non Megapixel CCD MODEL]
BE CAREFUL NOT TO TOUCH BY THE FINGER, AND BE CAREFUL NOT TO BEND THE TERMINAL FPC OF CAMERA OPE UNIT. (USE TWEEZERS OR FINGER STALL) (COUNTERMEASURE OF MIGRATION)
553
VF ASS'Y(G) (Refer to the Exploded view for this part.)
559
CONCLUSION SCREW TORQUE TABLE
PART.NO | TORQUE
ALL SCREW | 0.09 ±0.009 N•m
PROCESSING E-CARD WIRE (ONLY THE MODEL OF OP ASSY OF K185). [K185: Non Megapixel CCD MODEL]
AFTER ASSEMBLY BENT 180° PART OF E-CARD WIRE.
DRAWING FOR SPACER STICKING.
SPACER IS NOT PROTRUDED FROM ARM BRACKET.
LESS THAN 1 mm
570
PASTE
SPACER
PROCESSING J7C OP ASSY. [J7C: Megapixel CCD MODEL]
561 SPACER(A)
PASTE SPACER TO COVER FPC OF OP ASSY.
PASTE 568 SHIELD(CCD)
BENT
PASTE ALONG THIS LINE.
567 PASTE SHEET(SHIELD)
PASTE SHIELD INSIDE FPC.
PROCESSING K185 OP ASS'Y AND MIC WIRE. [K185: Non Megapixel CCD MODEL]
PASTE SPACER TO COVER FPC OF OP ASSY.
INSID BRACKET PART OF OP ASSY.
SPACER(A) 563
SPACER(A) 564
SPACER(A) 565
PASTE TO CORNER OF OP ASSY.
PASTE TO ACCORD.
DON'T PASS MIC WIRE ON THIS SCREW.
PASS MIC WIRE INSIDE BKT(OP).
DRAWING FOR AFTER ASSEMBLY BKT(OP).
PASTE SO THAT SIDE OF BKT(OP) MAYBE HIDDEN.
SPACER(A) 566
SPACER IS TWISTED AND WIRE CAN'T BE SEEN.
LESS THAN 1 mm.
LOWER ASS'Y(F) LYH20622
<M2> LOWER ASS'Y(G)
CONCLUSION SCREW TORQUE TABLE
PART.NO | TORQUE
514 | 0.07 ±0.009 N•m
ANOTHER SCREW | 0.12 ±0.01 N•m
BATT.TERMINAL 507
513
FPC 508
SOLDERING
KNOB(DSC) 503
SIDE COVER ASS'Y 502
<04> SIDE OPE BOARD ASS'Y
HOLDER (G.OUTER) 519
515
BKT(S.COVER/VF) 510
E-CARD WIRE 509
ARM ASS'Y 504
521
514
522
CASS.COVER ASS'Y 505
506
CAMERA OPE UNIT
BE CAREFUL NOT TO TOUCH BY THE FINGER, AND BE CAREFUL NOT TO BEND THE TERMINAL FPC OF CAMERA OPE UNIT. (USE TWEEZERS OR FINGER STALL) (COUNTERMEASURE OF MIGRATION)
512
LOWER ASS'Y(G) LYH20620
PROCESSING GRIP BELT.
JVC
ATTACHING
GRIP BELT 511
PROCESSING BATT. FPC
SHEET(BAT.FPC)
516 SHOULD BE COVERED TERMINAL PART.
SHOULD NOT BE COVERED SCREW HOLE.
DON'T STICK OUT BATT. FPC IN ARM BRACKET.
520 SPACER(A)
PROCESSING CAP(GRIP BELT).
CAP(GRIP BELT) 523
ATTACH CAP(GRIP BELT) THAT WIDTH IS WIDER BECOME REAR SIDE.
DRAWING FOR SPACER STICKING.
PASTE SPACER AFTER ATTACHING BATT. TERMINAL.
SPACER(A) 518
STICK ALONG THE EDGE OF ARM.
PROCESSING STICKER.
LABEL(C.COVER) 517
2±1 mm
1±1 mm

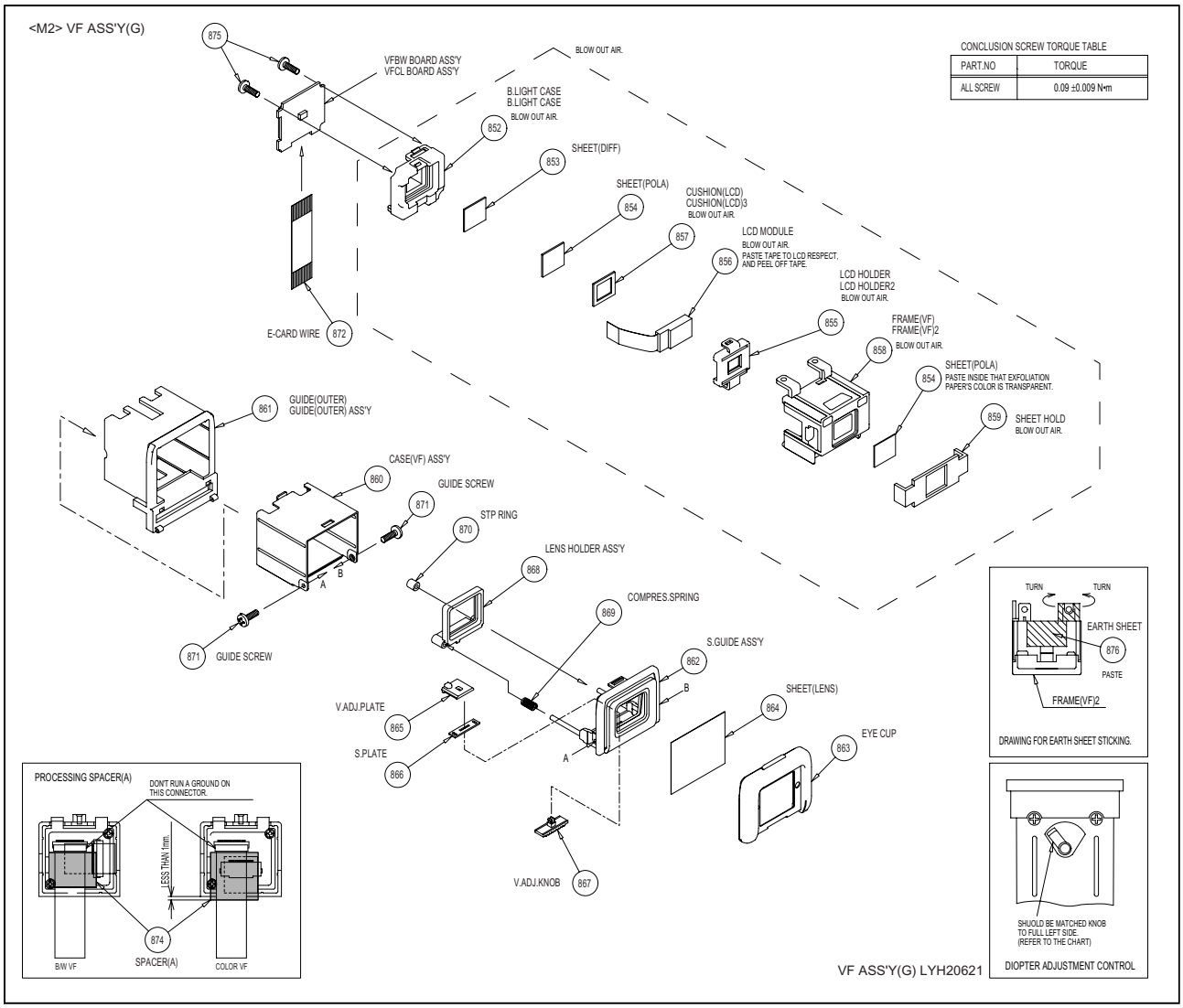
5.1.4 UPPER ASSEMBLY(G)<M2>


<M2> UPPER ASS'Y(G)
COVER(TOP/UPP)L
COVER(TOP/UPP)R
MONI.LOCK ASS'Y
MONITOR ASS'Y(G)
(Refer to the Exploded view for this part.)
SUB OPE UNIT
UPWARDS
U.CASE ASS'Y
PASTE
FRAME(UPPER) ASS'Y
SOLDERING 2 POINT
SPEAKER
SCREW *
BRACKET(SPEAKER) *
Mark*: This part was deleted on the way of production.
UPPER ASS'Y(G) LYH20626
CONCLUSION SCREW TORQUE TABLE
PART.NO
TORQUE
611
0.2 ±0.01 N•m
ANOTHER SCREW
0.08 ±0.01 N•m
DRAWING FOR SPACER STICKING.
PASTE SPACERS NOT TO COVER THESE HOLES.
SHEET STICK ALONG THE REINFORCEMENT BOARD OF FPC.
PASTE SPACER INSIDE BKT(UPPER).
SHOULD BE COVERED THIS CONVEX.
SHEET STICK ALONG THE CORNER OF FRAME.
PASTE SPACER THIS CONVEX IN UNDER SIDE.
STICK FPC SO THAT THERE MAY BE NO CREVICE BET MEEN THE HOLE OF IT IN THE RIGHT SIDE OF THE HOLE RING.
THE SIDE OF THE HOLE RING IS MET.
DON'T RUN A GROUND OF UPPER CASE.
DON'T SEPARATE.
SHEET(SHIELD)
THESE HOLES CAN BE SSEN.
DON'T BE SEEN SPACER OUTSIDE OF UPPER CASE.
STICK SPACER THAT FPC MAY BE PRESSED DOWN.
LESS THAN 0.5mm
DON'T STICK OUT SPACER IN UPPER CASE.
PROCESSING SUB OPE FPC.
VALLEY FOLDING
MOUNTAIN FOLDING
DON'T STICK OUT SPACER IN SUB OPE FPC.
STICK TO U.CASE.
PROCESSING SUB OPE.
AFTER PASTING SUB OPE. PUSH TO THIS SLASH PART.
DON'T RUN A GROUND TO A LEVEL DIFFERENCE OF UPPER CASE.
PROCESSING MONITOR FPC.
SOLDER 2 POINT
3 ±1 mm
3 ±1 mm
JVC

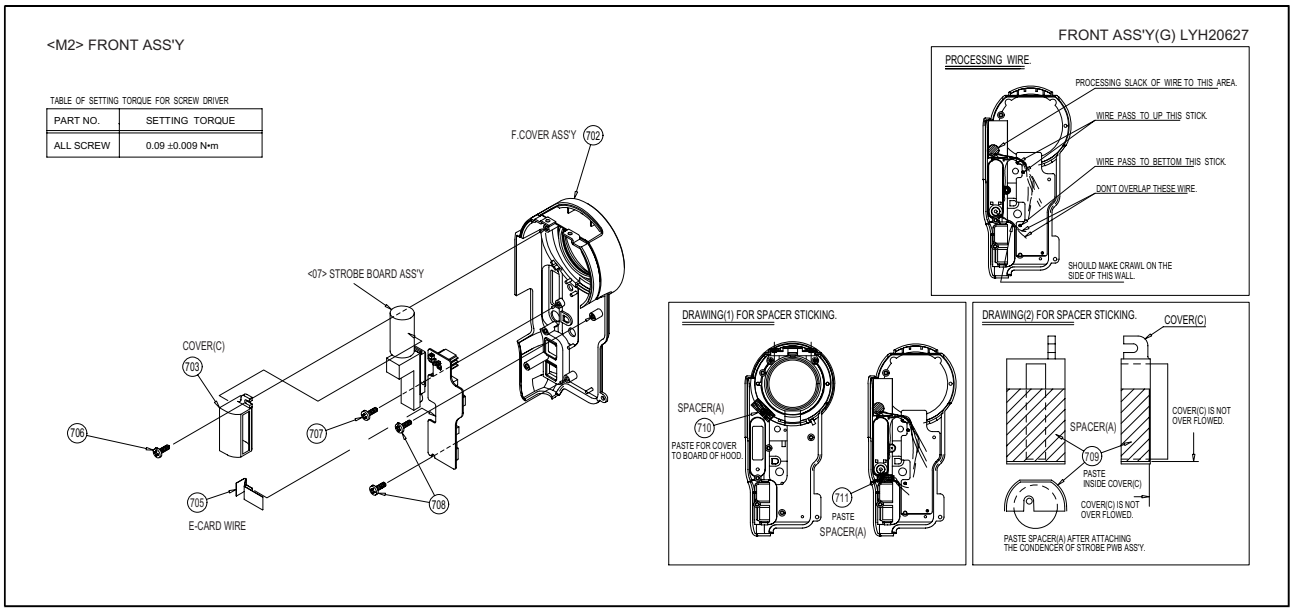
5.1.5 MONITOR ASSEMBLY(G)<M2>



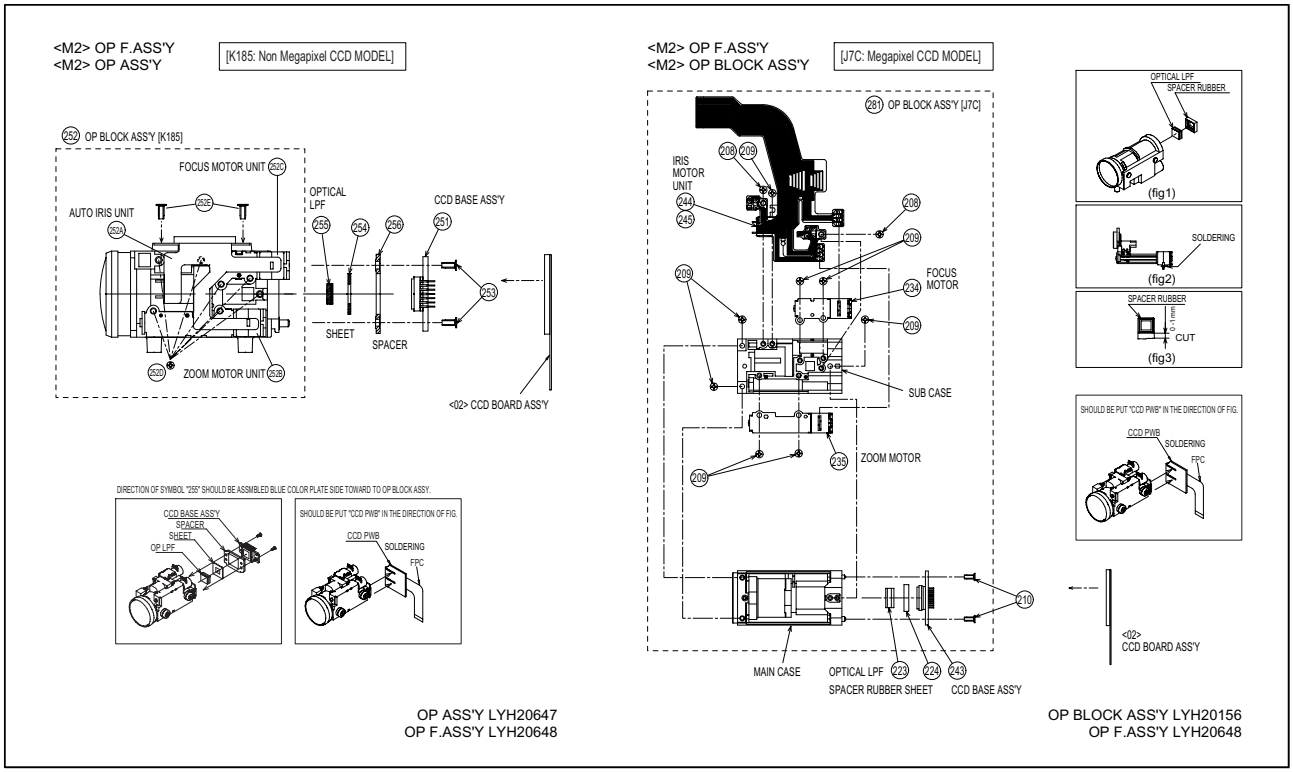
5.1.6 VF ASSEMBLY(G)<M2>



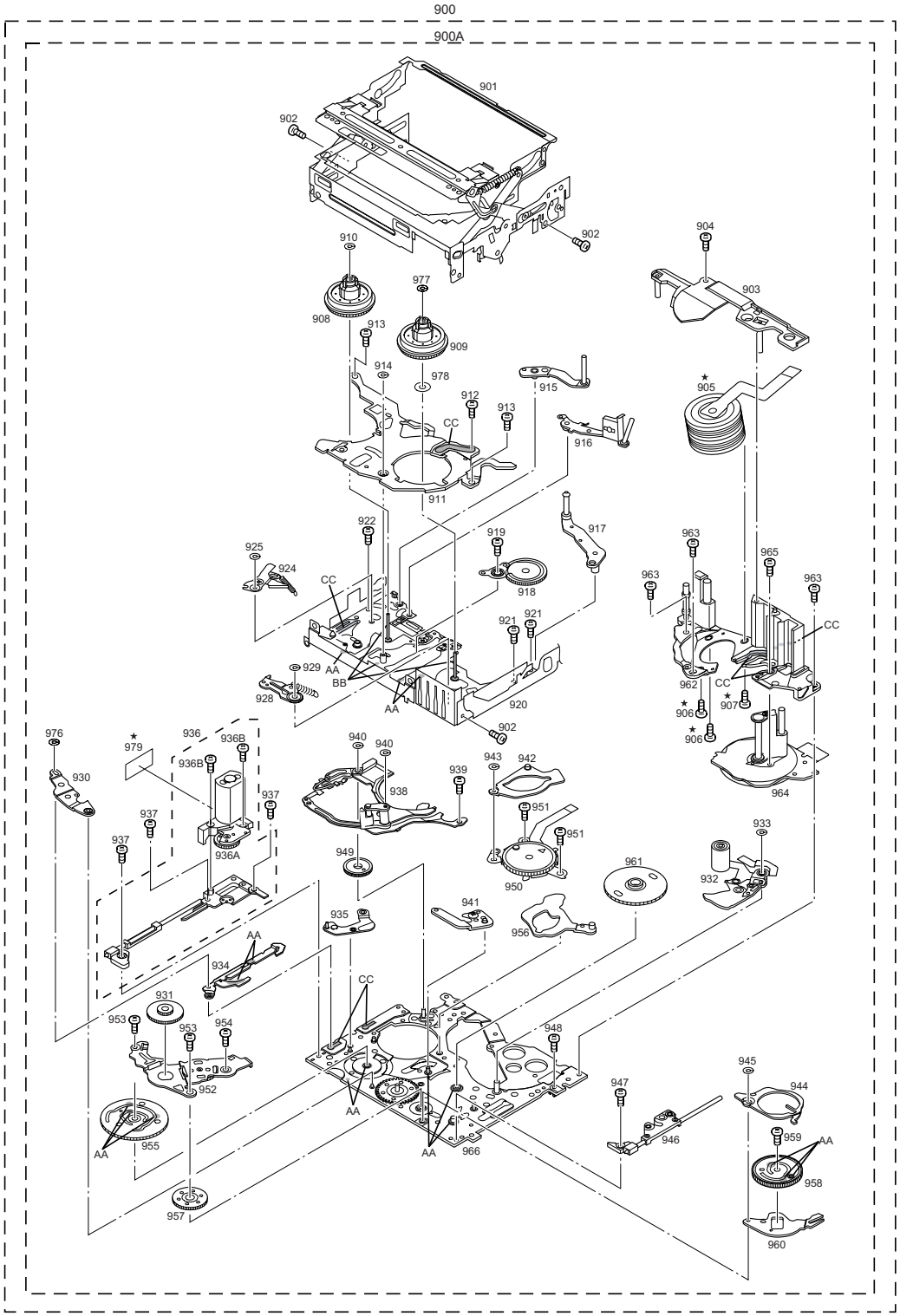
5.1.7 FRONT ASSEMBLY<M2>



5.1.8 OP F. ASSEMBLY, OP ASSEMBLY AND OP BLOCK ASSEMBLY<M2>



5.1.9 MECHANISM ASSEMBLY <M3>



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE1: The section marked in **AA** and **BB**, **CC** indicate lubrication and greasing areas.

NOTE2: Mark ⋆ is not contained in 900A.

5.2 PARTS LIST

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

PACKING AND ACCESSORY ASSEMBLY<M1>

⚠	006	LY32203-003A	B.PACK ASSY,BN-V107U-S
	007	LY20750-001A	REMOTE CTL UNIT,RM-V717U
	008	LY32210-050A	CD ROM ASSY
	008	LY32210-043A	CD ROM ASSY,FOR SALES PROMOTION
	010	QPA02503505P	POLY BAG,ACC.
	012	LY33433-007A	PACKING CASE,DX75US
	012	LY33433-010A	PACKING CASE,DX95US
	013	LY21053-001A	CUSHION
	014	LY30023-003A	POLY BAG
	051	QPA02003506	POLY BAG,DOCUMENT
⚠	052	LYT1140-001A	IB(EN)
⚠	052	LYT1140-002A	IB(FR)
⚠	052	LYT1140-003A	IB(SP)
	053	LYT1085-001A	IB(SOFT.EN)
	053	LYT1085-003A	IB(SOFT.FR)
	053	LYT1085-005A	IB(SOFT.SP)
	056	LYT1119-016A	SHEET(ATT.VF.2)
	059	BT-51005-5	WARRANTY INF.,DX75US
	059	BT-51005-6	WARRANTY INF.,DX95US
	060	BT-51028-2	REGIST.CARD
	061	BT-52006-2	WARRANTY CARD
	071	QPA01703005	POLY BAG,CABLE ASSY
	072	QAM0403-001	MULTI CABLE,MULTI
	073	QAM0402-001	RM CABLE,EDIT EXT
	074	QAM0451-001	USB CABLE,USB
	075	QQR0491-002	CORE FILTER,USB 1T
⚠	076	LY20968-001B	AC ADAPTER,AP-V13U
	077	QQR0917-002	CORE FILTER
	078	LY33346-001A	HOOD CAP ASSY
	079	———	BATTERY,X2,FOR RCU
	080	QQR0917-002	CORE FILTER,MULTI
	082	LY30023-014A	POLY BAG,CORE FILT.

****

FINAL ASSEMBLY<M2>

102	LYH20627-015B	FRONT ASSY(G),DX75US
102	LYH20627-014B	FRONT ASSY(G),DX95US
103	LYH20622-015B	LOWER ASSY(F),DX75US
103	LYH20622-014B	LOWER ASSY(F),DX95US
104	LYH20626-015B	UPPER ASSY(G),DX75US
104	LYH20626-014B	UPPER ASSY(G),DX95US
106	LY33332-001A	MIC COVER
108	LY44087-001A	BKT(TERMINAL)
109	LY33354-001A	SHIELD PLATE
110	LY43083-001A	BKT(PRE-REC)
111	LY33333-002A	COVER(DV)
112	LY33386-001C	HOLDER(DV/USB)
113	LY21032-001E	TOP COVER
114	LY33318-001A	BRACKET(TOP)
115	LY30019-028A	SPECIAL SCREW,X3,MECHA-BKT
116	QYSPSPT1414M	SCREW,BKTP/R-MEC
117	LY30018-032A	SPECIAL SCREW,X2,SH.P/R-M.B
118	LY30018-032A	SPECIAL SCREW,X3,BKT(M)-ARM
119	LY30018-0K2A	SPECIAL SCREW,BKT(M)-BAS
120	LY30018-0D8A	SPECIAL SCREW,UP-C.OPE(U
121	LY30018-048A	SPECIAL SCREW,UP-C.OPE(L
122	LY30018-043B	SPECIAL SCREW,UP-BASE
123	LY30018-006B	SPECIAL SCREW,X3,UP-ARM
124	LY30018-0E4A	SPECIAL SCREW,X2,COV(D/U)-F
125	LY30018-0B7A	SPECIAL SCREW,UP-FR
126	LY30018-043B	SPECIAL SCREW,FR-ARM
127	LY30018-0E4A	SPECIAL SCREW,BKT(T)-ARM
128	LY30018-043B	SPECIAL SCREW,BKT(T-FR(U
129	LY30018-043B	SPECIAL SCREW,X2,BKT(T-BK(F
130	LY30018-006B	SPECIAL SCREW,TOP-BKT(T)
131	LY30018-0B7A	SPECIAL SCREW,X2,TOP-CO(T/U
132	LY30018-0B7A	SPECIAL SCREW,UP-VF
133	LY30018-0B7A	SPECIAL SCREW,TOP-VF
134	QYSPSPT1730R	SCREW,FR-ARM
183	LY33383-001A	COVER(ADJ)
184	LY41393-005A	COVER(JIG CONN)
185	LY32884-002A	DUMMY BATTERY
186	LY32001-002A	LABEL(HOUSING)
187	LY40699-002A	LABEL(PUSH)
188	LY30018-043B	SPECIAL SCREW,X2,COV(ADJ-AR
189	LY30018-026A	SPECIAL SCREW,COV(JIG-UP
190	QAM0404-002	MEMORY CARD,MMC 8MB*,DX95US
191	———	TAG

*NOTE :
DATA FILE is not contained in MEMORY CARD of the service part.

****

OP BLOCK ASSEMBLY<M2>

251	LYH20646-002A	CCD BASE ASS'Y
252	LY33085-002C	OP BLOCK ASSY
252A	PTY33085-006	AUTO IRIS UNIT
252B	LY30723-001B	ZOOM MOTOR UNIT
252C	LY30724-001B	FOCUS MOTOR UNIT
252D	PTY33085-001	SCREW,X7
252E	PTY31727-116	SCREW,X2
253	LY30018-0E7A	SPECIAL SCREW,X2
254	LY44005-001A	SHEET
255	LY44120-001A	OPTICAL LPF
256	LY33288-001A	SPACER

****

LOWER ASSEMBLY(G)<M2>

502	LY33305-001C	SIDE COVER ASSY
503	LY33306-001A	KNOB(DSC)
504	LY21028-001C	ARM ASSY
505	LY33316-001C	CASS.COVER ASSY
506	LY21031-001C	CAMERA OPE UNIT
507	LY32575-002A	BATT.TERNIMAL
508	QAL0467-001	FPC,BATT.FPC
509	WJT0104-001A	E-CARD WIRE,SIDE-SD
510	LY44140-001A	BKT(S.COVER/VF)
511	LY33439-003A	GRIP BELT
512	LY30018-0A2A	SPECIAL SCREW,X2,C.OPE-ARM
513	LY30018-0A2A	SPECIAL SCREW,X2,BATT-ARM
514	LY30018-063A	SPECIAL SCREW,X2,S.COV-S.PW
515	LY30018-0A2A	SPECIAL SCREW,X4,COVER-ARM
516	LY44213-001A	SHEET(BAT.FPC)
517	LY44216-001A	LABEL(C.COVER)
518	LY30030-059B	SPACER(A),X2
519	LY33587-001A	HOLDER(G.OUTER)

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
520	LY30030-0P8A	SPACER(A)
521	LY30018-021A	SPECIAL SCREW,SCOV-SPWBL
522	LY30018-060A	SPECIAL SCREW,HLDR-S.COV

LOWER ASSEMBLY(F)<M2>

552	LYH20620-015B	LOWER ASSY(G),DX75US
552	LYH20620-014B	LOWER ASSY(G),DX95US
553	LYH20621-015C	VF ASSY(G),DX75US
553	LYH20621-014C	VF ASSY(G),DX95US
555	LY33342-001A	BKT(OP)
556	WJT0113-001A	E-CARD WIRE,K185-SD
557	LY30018-032A	SPECIAL SCREW,SD-ARM
558	LY30018-019A	SPECIAL SCREW,OP-BKT(OP)
559	LY30018-006B	SPECIAL SCREW,X2,VF-BKT(VF)
560	LY30018-006B	SPECIAL SCREW,BKT(OP)-AR
561	LY30029-0P8A	SPACER(A),FOR OP
562	LY33392-001A	MIC ASSY
563	LY30030-0L8A	SPACER(A),FOR OP
564	LY30030-0L9A	SPACER(A),FOR OP
565	LY30030-0M1A	SPACER(A),X2,FOR OP
566	LY30030-0N4A	SPACER(A),FOR MICWIR

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UPPER ASSEMBLY(G)<M2>

601	LYH20625-015B	MONITOR ASSY(G),DX75US
601	LYH20625-014B	MONITOR ASSY(G),DX95US
602	LY33319-004A	U.CASE ASSY
603	LY33580-001A	FRAME(UPPER)AY
604	LY33320-001B	MONI.LOCK ASSY
605	LY44136-001B	COVER(TOP/UPP)L
606	LY44137-001B	COVER(TOP/UPP)R
607	LY33322-001B	SUB OPE UNIT
609	QAS0132-002	SPEAKER
610	LY30018-043B	SPECIAL SCREW,UPPER-FRM
611	LY30018-068A	SPECIAL SCREW,X2,UPPER-HING
612	LY30018-043B	SPECIAL SCREW,X2,C(T/U)-HIN
613	LY30018-043B	SPECIAL SCREW,X2,UPPER-M.LO
615	LY30030-0A9A	SPACER(A),SUB OP FPC
616	LY30018-032A	SPECIAL SCREW,X2,MFPC-UFRM
617	LY30018-0D8A	SPECIAL SCREW,X2,MONSW-UPPR
618	LY30030-0F4A	SPACER(A)
619	LY44237-001A	SHEET(SHIELD)
620	LY30030-0K9A	SPACER(A),UPP BSIDE
621	LY30030-0M9A	SPACER(A),UP-SPK1
622	LY30030-0N1A	SPACER(A),UP-SPK2
623	LY30030-0N2A	SPACER(A),FOR MONIFP
624	LY30030-0N3A	SPACER(A),FOR MONIFP
625	LY44295-003A	STICKER,DX75US
625	LY44295-004A	STICKER,DX95US

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FRONT ASSEMBLY(G)<M2>

702	LY21036-007D	F.COVER ASSY
703	LY33352-001A	COVER(C)
705	WJT0110-001A	E-CARD WIRE,STROBE-MAI
706	LY30018-063A	SPECIAL SCREW,COV(C)-FR
707	LY30018-021A	SPECIAL SCREW,STB-FR
708	LY30018-021A	SPECIAL SCREW,X2,STB.PWB-FR
709	LY30030-0A7A	SPACER(A),FOR CAPAC.
710	LY30030-0M8A	SPACER(A),STB WIRE
711	LY30030-0Q8A	SPACER(A),FRONT-HOOD

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MONITOR ASSEMBLY(G)<M2>

802	LY21052-001C	MONITOR CASE(25,DX75US
802	LY21034-001C	MONITOR CASE(3),DX95US
803	LY33324-004A	M.COVER ASSY
804	LY43438-001A	I.SHEET(M.COVER,M.COV B.S
805	LY33422-001A	LCD BKT(2.5)1,DX75US
805	LY33325-001A	LCD BKT(3INCH)1,DX95US
806	LY33423-001A	LCD BKT(2.5)2,DX75US
806	LY33326-001A	LCD BKT(3INCH)2,DX95US
807	LY33327-001B	HINGE UNIT ASSY,DX75US
807	LY33327-001C	HINGE UNIT ASSY,DX95US
808	NSW0122-001X	DETECT SWITCH
809	DN8797MS-X	IC
810	QLD0272-001	LCD MODULE,DX75US
810	QLD0274-001	LCD MODULE,DX95US
811	QLL0153-001	BACK LIGHT,DX75US
811	QLL0154-001	BACK LIGHT,DX95US
812	LY30018-070A	SPECIAL SCREW,BK(LCD-M.P
813	LY30018-070A	SPECIAL SCREW,M.CAS-HIN
814	LY30018-028A	SPECIAL SCREW,X2,HIN-M.COV
815	LY30018-0A2A	SPECIAL SCREW,X3,M.COV-BK(2
816	LY30030-0F8A	SPACER(A),X2,LCD-BKT1-V,DX75US
816	LY30030-0G1A	SPACER(A),X2,LCD-BKT1-V,DX95US
817	LY30030-0F8A	SPACER(A),X2,LCD-BKT2,DX75US
817	LY30030-0G1A	SPACER(A),X2,LCD-BKT2,DX95US
818	LY30030-0F9A	SPACER(A),X2,LCD-BKT1-H,DX75US
818	LY30030-0G2A	SPACER(A),X2,LCD-BKT1-H,DX95US
819	LY30030-0M6A	SPACER(A),X2,MONI PWB
820	LY30030-0K7A	SPACER(A),BKT1-MCASE
821	LY30030-0P3A	SPACER(A),BKT2(FPC,DX75US

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VF ASSEMBLY(G)<M2>

852	LY33384-001A	B.LIGHT CASE2
853	LY44100-001A	SHEET(DIFF)
854	LY44098-001A	SHEET(POLA),X2
855	LY33335-001B	LCD HOLDER2
856	QLD0193-002	LCD MODULE
857	LY44319-001A	CUSHION(LCD)3
858	LY21047-001C	FRAME(VF)2
859	LY33341-001A	SHEET HOLD
860	LY33382-001B	CASE(VF)ASSY
861	LY33403-004A	GUIDE(OUTER)AY
862	LY33345-001C	S.GUIDE ASSY
863	LY33432-001A	EYE CUP
864	LY44097-001A	SHEET(LENS)
865	LY33379-001B	V.ADJ.PLATE
866	LY44102-001A	S.PLATE
867	LY33378-001A	V.ADJ.KNOB
868	LY44103-001A	LENS HOLDER AY
869	LY30002-055A	COMPRES. SPRING,X2
870	LY44095-001B	STP RING
871	LY44096-001A	GUIDE SCREW,X2
872	WJT0111-001A	E-CARD WIRE

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
874	LY30030-0A8A	SPACER(A)	
875	LY30018-0B7A	SPECIAL SCREW,X2	

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MECHANISM ASSEMBLY<M3>

900	YMA0029H	MECHA(A)ASSY	
900A	YMA0029D	MECHA(A)ASSY	
901	LY32870-001G	CASSETTEHOUSING ASSY	
902	YQ43893-8	MINI SCREW	(x3)
903	LYH30420-001A	UPPER BASE ASSY	
904	QYSPSPU1425M	SCREW	
905	YDV2102B	DRUM ASSY	
906	LY42820-001A	DAMP.SCREW ASSY	(x2)
907	LY42820-002A	DAMP.SCREW ASSY	
908	LY31538-001F	REEL DISK ASSY	
909	LY31538-002H	REEL DISK ASSY	
910	YQ44246	SLIT WASHER	
911	LY10372-001D	REEL COVER ASSY	
912	LY42120-002A	MINI SCREW	
913	LY41945-003A	MINI SCREW	(x2)
914	YQ44246	SLIT WASHER	
915	LY43725-001D	TENSION ARM ASSY	
916	LYH40269-001A	SLANT POLE ARM ASSY	
917	LY43731-001F	TU ARM ASSY	
918	LY31531-001D	SWING ARM ASSY	
919	YQ43893	MINI SCREW	
920	LYH30424-001A	SLIDE DECK FINAL ASSY	
921	YQ43893	MINI SCREW	(x2)
922	LY43023-001A	MINI SCREW	
924	LYH30419-001A	PAD ARM ASSY	
925	YQ44246	SLIT WASHER	
928	LYH40270-001A	TU BRAKE ASSY	
929	YQ44246	SLIT WASHER	
930	LY43684-001A	TENSION CONTROL LEVER ASSY	
931	LY32861-001A	CENTER GEAR	
932	LY31516-001F	PINCH ROLLER ARM FINAL ASSY	
933	YQ44246	SLIT WASHER	
934	LY43681-001A	TENSION CONTROL PLATE ASSY	
935	LY43687-001A	BRAKE CONTROL LEVER ASSY	
936	LYH30421-001A	MOTOR BRACKET ASSY	
936A	QAR0138-001	LOADING MOTOR	
936B	LY41940-001A	TAPPING SCREW	(x2)
937	YQ43893	MINI SCREW	(x3)
938	LYH30422-001A	GUIDE RAIL ASSY	
939	YQ43893	MINI SCREW	
940	YQ44246	SLIT WASHER	(x2)
941	LY32843-001A	SLIDE LEVER2 ASSY	
942	LY43690-001A	LOADING PLATE ASSY	
943	YQ44246	SLIT WASHER	
944	LY32858-001A	EJECT LEVER	
945	YQ44246	SLIT WASHER	
946	LYH40271-001A	BASE R ASSY	
947	YQ43893	MINI SCREW	
948	LY41945-001B	MINI SCREW	
949	LY43665-001A	MODE GEAR	
950	QSW0876-003	ROTARY ENCODER	
951	YQ43893	MINI SCREW	(x2)
952	LY32860-001A	GEAR COVER ASSY	
953	YQ43893	MINI SCREW	(x2)
954	YQ43893-4	MINI SCREW	
955	LY43676-001A	MAIN CAM ASSY	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
956	LY41941-001B	SLIDE ARM ASSY	
957	LY43678-001A	CONNECT GEAR 2	
958	LY41954-001C	SUB CAM ASSY	
959	LY42120-001A	MINI SCREW	
960	LY43692-001A	CONTROL ARM ASSY	
961	LY32859-001A	REEL GEAR 1	
962	LY31508-002B	DRUM BASE ASSY	
963	QYSPSPU1425M	SCREW	1.4mm x 2.5mm(x3)
964	QAR0142-001	CAPSTAN MOTOR	
965	YQ43893	MINI SCREW	
966	LY10367-001D	MAIN DECK ASSY	
976	YQ44246	SLIT WASHER	
977	YQ44246-6	SLIT WASHER	
978	LY42047-005A	WASHER	
979	LY43987-001B	SPACER	

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION

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MAIN BOARD ASSEMBLY <01>

PW1	YB10426C-04	MAIN PWB ASS'Y,01
IC1001	MN103S33NJJ	IC(MICRO C ROM),MASK
IC1001 or	MN103SF33NY4JJ	IC(MICRO C ROM),FLASH
IC1002	MB90097PFV149-X	IC(MICRO C ROM),MB90099
IC1003	SN74AHC1G00K-X	IC
IC1004	NJU7108F3-X	IC
IC1005	25LC320X-I/ST-X	IC
IC1006	RS5C314-X	IC
IC1007	IC-PST3423U-X	IC
IC1007 or	S-80823CNNB-X	IC
IC1601	BD6637KS	IC,MDA BD6637
IC1701	LM358DR2-X	IC,REELAMP5V
IC1702	BA10393F-XE	IC,REELSMT
IC1801	BA10358FVM-W	IC,IR AMP
IC1851	RPM7138	IR DETECT UNIT,IR
IC2101	AK4550VT-X	IC
IC2201	AK4564VQ	IC
IC3001	JCY0152	IC,JCY0152
IC3002	BU2501FV-X	IC
IC3005	JCY0136-X	IC,JCY0136-X
IC3501	JCY0132	IC
IC3502	SN74AHC1G04K-X	IC
IC3701	BA7665FS-X	IC
IC3731	MM1504XN-X	IC
IC3801	JCP8045	IC(DIGITAL)
IC4201	HD49340NP-X	IC,CDS/AD QFN
IC4202	MM1613AN-X	IC,REG 3V
IC4301	JCY0200	IC,CAM DSP
IC4302	R1160N151B-X	IC,REG 1.5V
IC5501	JCY0185	IC,TG/VDR
IC6001	S-80842CNNB-W	IC
IC6002	S-817A33ANB-W	IC
IC6003	R1224N102G-X	IC
IC6101	FA3698F	IC,SW_REG IC
IC6601	TC7W74FU-X	IC(DIGITAL)
IC6601 or	TC7WH74FU-X	IC(DIGITAL)
IC6602	BA10358FVM-W	IC
IC8001	TMS320DSC24GHKL	IC,DSC24
IC8002	K4S643232F-TC60	IC,64MSDRAM
IC8002 or	HY57643220CT55	IC,64MSDRAM
IC8002 or	HY57643220CT7	IC,64MSDRAM
IC8003	MBV160TE90PBA06	IC(MICRO C ROM),16MFLASH
IC8003 or	MBV160TE90PBA08	IC(MICRO C ROM),16MFLASH
IC8004	BU2288FV-X	IC,FS PLL
IC8301	ISP1181ABS	IC,USBQNFμ2.6
IC8302	S-80842CNNB-W	IC
Q1001	DTA114EE-X	DIGI TRANSISTOR
Q1001 or	PDTA114EE-X	DIGI TRANSISTOR
Q1001 or	RN2102-X	DIGI TRANSISTOR
Q1002	UMC3N-W	DIGI TRANSISTOR
Q1003	UMC3N-W	DIGI TRANSISTOR
Q1004	UMC3N-W	DIGI TRANSISTOR
Q1005	DTC143XE-X	DIGI TRANSISTOR
Q1006	UMC3N-W	DIGI TRANSISTOR
Q1007	2SC4617/QR/-X	TRANSISTOR
Q1008	DTC124EE-X	DIGI TRANSISTOR
Q1008 or	PDTC124EE-X	DIGI TRANSISTOR
Q1009	2SJ347-X	MOS FET
Q1010	DTC143EE-X	DIGI TRANSISTOR

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION
Q1601	UMC3N-W	DIGI TRANSISTOR,LD ON
Q1801	RPM-22PB	PHOTO TRANSISTO
Q2401	2SC4617/QR/-X	TRANSISTOR
Q2403	2SC4617/QR/-X	TRANSISTOR
Q2801	UMX1N-W	PAIR TRANSISTOR
Q3001	2SC4617/RS/-X	TRANSISTOR
Q3002	2SC4617/RS/-X	TRANSISTOR
Q3701	UMT1N-W	PAIR TRANSISTOR
Q3701 or	XP4401-W	TRANSISTOR
Q3702	UMZ1N-W	PAIR TRANSISTOR
Q3702 or	XP4601-W	TRANSISTOR
Q3704	2SA1774/RS/-X	TRANSISTOR
Q3705	UMT1N-W	PAIR TRANSISTOR
Q3705 or	XP4401-W	TRANSISTOR
Q3731	2SC4617/RS/-X	TRANSISTOR
Q3731 or	2SD2216J/RS/-X	TRANSISTOR
Q3732	DTC144EE-X	DIGI TRANSISTOR
Q3732 or	UN9213J-X	DIGI TRANSISTOR
Q3732 or	RN1104-X	DIGI TRANSISTOR
Q3732 or	PDTC144EE-X	DIGI TRANSISTOR
Q3733	UMZ1N-W	PAIR TRANSISTOR
Q3733 or	XP4601-W	TRANSISTOR
Q3734	2SC4617/RS/-X	TRANSISTOR
Q3734 or	2SD2216J/RS/-X	TRANSISTOR
Q3735	UMZ1N-W	PAIR TRANSISTOR
Q3735 or	XP4601-W	TRANSISTOR
Q6001	DTC144EE-X	DIGI TRANSISTOR
Q6001 or	RN1104-X	DIGI TRANSISTOR
Q6001 or	PDTC144EE-X	DIGI TRANSISTOR
Q6001 or	UN9213J-X	DIGI TRANSISTOR
Q6002	MCH6613-W	MOS FET
Q6003	FML9-W	TRANSISTOR
Q6201	QS6U24-W	MOS FET
Q6202	2SA1577/RS/-X	TRANSISTOR
Q6203	QS6U24-W	MOS FET
Q6204	QS6U24-W	MOS FET
Q6205	CPH3101-X	TRANSISTOR
Q6206	DTC124TE-X	DIGI TRANSISTOR
Q6206 or	UN9210J-X	DIGI TRANSISTOR
Q6207	QS6U24-W	MOS FET
Q6208	QS6U24-W	MOS FET
Q6209	CPH3314-X	MOS FET
Q6210	HN1C01FU/G/-X	PAIR TRANSISTOR
Q6210 or	PUMX1-W	PAIR TRANSISTOR
Q6210 or	UMX1N-W	PAIR TRANSISTOR
Q6211	2SA1577/RS/-X	TRANSISTOR
Q6213	HN1A01FU/G/-X	PAIR TRANSISTOR
Q6213 or	PUMT1-W	PAIR TRANSISTOR
Q6213 or	UMT1N-W	PAIR TRANSISTOR
Q6214	2SC4617/RS/-X	TRANSISTOR
Q6601	DTC144EE-X	DIGI TRANSISTOR
Q6601 or	RN1104-X	DIGI TRANSISTOR
Q6601 or	UN9213J-X	DIGI TRANSISTOR
Q6601 or	PDTC144EE-X	DIGI TRANSISTOR
Q6602	UMS1N-W	PAIR TRANSISTOR
Q6611	2SA1774/RS/-X	TRANSISTOR
Q6612	UMS1N-W	PAIR TRANSISTOR
Q6613	2SC4617/RS/-X	TRANSISTOR
Q6614	RN1702-X	DIGI TRANSISTOR
Q6615	UMC4N-W	DIGI TRANSISTOR
Q6701	CPH3314-X	MOS FET
Q8001	2SA1774/RS/-X	TRANSISTOR,2SA1774
D1001	DA221-X	SI DIODE

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		D1602	DAP222-X	SI DIODE,LD OUT	
		D1602	or MA132WA-X	SI DIODE	
		D1603	DAP222-X	SI DIODE,LD ON	
		D1603	or MA132WA-X	SI DIODE	
		D1604	DAP222-X	SI DIODE,C.ERR-3V	
		D1604	or MA132WA-X	SI DIODE	
		D1801	SML-711UW-X	LED,TALLY	
		D2807	RSA6.1J4-W	SI DIODE	
		D3001	EC2C01C-X	VARI CAP DIODE	
		D3002	EC2C01C-X	VARI CAP DIODE	
		D3003	EC2C01C-X	VARI CAP DIODE	
		D3004	MA2Z720-X	SB DIODE	
		D5501	1SS355-X	SI DIODE	
	⚠	D6001	RB706D-40-X	SB DIODE	
	⚠	D6002	RB715F-X	SB DIODE	
		D6201	RB480Y-W	SB DIODE	
		D6203	RB480Y-W	SB DIODE	
		D6701	EP10HY03-X	SB DIODE	
		D6702	EP10HY03-X	SB DIODE	
		D8301	1SS355-X	SI DIODE	
		D8301	or MA111-X	SI DIODE	
		R1001	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
		R1002	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1003	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1006	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1007	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1008	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1010	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1012	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1013	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1014	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1015	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1016	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1017	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
		R1018	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
		R1019	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1020	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1021	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1022	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1023	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1024	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1025	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1027	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
		R1030	NRSA6AJ-753W	MG RESISTOR	75kΩ,1/16W
		R1031	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
		R1032	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1033	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1034	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1035	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1037	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1039	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
		R1043	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1044	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1045	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
		R1046	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1047	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1048	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1049	NRSA6AJ-623W	MG RESISTOR	62kΩ,1/16W
		R1050	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
		R1051	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1052	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1053	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W

#	⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
		R1054	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1055	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
		R1056	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
		R1057	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1058	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1059	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1060	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
		R1061	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
		R1062	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
		R1063	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1064	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1065	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
		R1066	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1067	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
		R1068	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1069	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1070	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
		R1071	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
		R1072	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
		R1073	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1074	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1075	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1076	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
		R1077	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1078	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
		R1079	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
		R1080	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
		R1081	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1082	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
		R1083	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1084	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1085	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1086	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1087	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1088	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1089	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1090	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
		R1091	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1092	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1093	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1094	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1095	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1096	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
		R1097	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
		R1099	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
		R1601	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
		R1602	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
		R1603	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
		R1604	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1610	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
		R1611	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
		R1612	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
		R1613	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
		R1614	NRZ0072-R330X	MG RESISTOR	0.33Ω,1/4WF
		R1616	NRSA6AD-332W	MG RESISTOR	3.3kΩ,1/16W
		R1617	NRZ0072-R330X	MG RESISTOR	0.33Ω,1/4WF
		R1620	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1621	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1622	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
		R1624	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
		R1625	NRSA6AD-361W	MG RESISTOR	360Ω,1/16W
		R1629	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
		R1630	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R1631	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1635	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R1636	NRSA6AJ-123W	MG RESISTOR	12kΩ,1/16W
R1637	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R1638	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1639	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1640	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1641	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1642	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1648	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R1701	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1702	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1703	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1704	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1705	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R1706	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R1707	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1708	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1709	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1710	NRSA6AJ-124W	MG RESISTOR	120kΩ,1/16W
R1711	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1712	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R1801	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1802	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1803	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R1804	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R1805	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R1806	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1807	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R1808	NRSA6AJ-302W	MG RESISTOR	3kΩ,1/16W
R1851	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R2101	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2102	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R2103	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2201	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
R2202	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2203	NRSA6AJ-393W	MG RESISTOR	39kΩ,1/16W
R2204	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R2206	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2207	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2208	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2209	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2212	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2213	NRSA6AJ-2R7W	MG RESISTOR	2.7Ω,1/16W
R2217	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2225	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2226	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2227	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R2228	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R2229	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2230	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R2401	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2402	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R2403	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R2407	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R2601	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R2602	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R2607	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2608	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R2609	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2610	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R2801	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2802	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R2803	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2804	NRSA6AJ-564W	MG RESISTOR	560kΩ,1/16W
R2805	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R2806	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2807	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2808	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2809	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2810	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R2812	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2813	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R2814	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3004	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3005	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3006	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3007	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R3008	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3009	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3010	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3011	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3013	NRSA6AJ-242W	MG RESISTOR	2.4kΩ,1/16W
R3014	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3015	NRSA6AJ-392W	MG RESISTOR	3.9kΩ,1/16W
R3016	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3017	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3018	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3019	NRVA6AD-560W	CMF RESISTOR	56Ω,1/16W
R3020	NRVA6AD-512W	CMF RESISTOR	5.1kΩ,1/16W
R3021	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3025	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3029	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3030	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3031	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R3032	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3034	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3036	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3037	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R3057	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R3066	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3067	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R3068	NRSA6AJ-181W	MG RESISTOR	180Ω,1/16W
R3069	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3071	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3074	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3501	NRSA6AJ-471W	MG RESISTOR	470Ω,1/16W
R3502	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3503	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3504	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3505	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3506	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3507	NRSA6AD-241W	MG RESISTOR	240Ω,1/16W
R3508	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R3511	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3521	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3522	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3523	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3524	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3525	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3526	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3527	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R3701	NRSA6AD-271W	MG RESISTOR	270Ω,1/16W
R3702	NRSA6AD-271W	MG RESISTOR	270Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R3703	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3704	NRSA6AD-301W	MG RESISTOR	300Ω,1/16W
R3705	NRSA6AD-301W	MG RESISTOR	300Ω,1/16W
R3706	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3707	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3708	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3709	NRSA6AD-680W	MG RESISTOR	68Ω,1/16W
R3710	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3711	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3712	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R3713	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3714	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R3715	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R3722	NRSA6AD-131W	MG RESISTOR	130Ω,1/16W
R3724	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
R3725	NRSA6AD-131W	MG RESISTOR	130Ω,1/16W
R3726	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3727	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3728	NRVA6AD-131W	CMF RESISTOR	130Ω,1/16W
R3730	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3731	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R3732	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3733	NRSA6AD-561W	MG RESISTOR	560Ω,1/16W
R3734	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R3735	NRSA6AD-182W	MG RESISTOR	1.8kΩ,1/16W
R3736	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R3737	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R3738	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R3739	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R3740	NRSA6AJ-821W	MG RESISTOR	820Ω,1/16W
R3741	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3742	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3743	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R3744	NRSA6AD-561W	MG RESISTOR	560Ω,1/16W
R3745	NRSA6AD-152W	MG RESISTOR	1.5kΩ,1/16W
R3746	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R3747	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R3748	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R3801	NRSA6AJ-101W	MG RESISTOR	100Ω,1/16W
R3802	NRSA6AD-821W	MG RESISTOR	820Ω,1/16W
R3803	NRSA6AD-273W	MG RESISTOR	27kΩ,1/16W
R3804	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
R3805	NRSA6AD-821W	MG RESISTOR	820Ω,1/16W
R3807	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4201	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4202	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R4206	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R4207	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R4301	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R4302	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4304	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4306	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4307	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R4308	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R4309	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4310	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4315	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4317	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4319	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4321	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4326	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R4328	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4329	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R4330	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4331	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4332	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4333	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4334	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4335	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4336	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4337	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4338	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4339	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4341	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4342	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4343	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4345	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4346	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4348	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4349	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4350	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4351	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4352	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4353	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4354	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4355	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4356	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R5503	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R5504	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R5505	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R5506	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5507	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R5509	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R5511	NRSA6AJ-470W	MG RESISTOR	47Ω,1/16W
R5512	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R5513	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R5514	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6001	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6002	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6003	NRSA6AJ-224W	MG RESISTOR	220kΩ,1/16W
R6004	NRSA6AJ-183W	MG RESISTOR	18kΩ,1/16W
R6005	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
⚠ R6006	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
⚠ R6007	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R6008	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R6009	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6010	NRSA6AD-513W	MG RESISTOR	51kΩ,1/16W
R6012	NRSA6AD-243W	MG RESISTOR	24kΩ,1/16W
R6101	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
R6102	NRSA6AJ-751W	MG RESISTOR	750Ω,1/16W
R6103	NRSA6AD-622W	MG RESISTOR	6.2kΩ,1/16W
R6104	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R6105	NRSA6AJ-562W	MG RESISTOR	5.6kΩ,1/16W
R6106	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
R6107	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R6108	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R6109	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R6110	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
R6111	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6112	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6113	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6201	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6202	NRSA6AD-223W	MG RESISTOR	22kΩ,1/16W
R6203	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R6204	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
R6205	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R6206	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6207	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
R6208	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
R6209	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6210	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
R6211	NRSA6AD-153W	MG RESISTOR	15kΩ,1/16W
R6212	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6213	NRSA6AD-183W	MG RESISTOR	18kΩ,1/16W
R6215	NRSA6AD-472W	MG RESISTOR	4.7kΩ,1/16W
R6216	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R6217	NRSA6AJ-152W	MG RESISTOR	1.5kΩ,1/16W
R6218	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6219	NRSA6AD-243W	MG RESISTOR	24kΩ,1/16W
R6220	NRSA6AD-302W	MG RESISTOR	3kΩ,1/16W
R6221	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
R6222	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
R6223	NRSA6AD-103W	MG RESISTOR	10kΩ,1/16W
R6224	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6225	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6226	NRSA6AD-562W	MG RESISTOR	5.6kΩ,1/16W
R6227	NRSA6AD-273W	MG RESISTOR	27kΩ,1/16W
R6228	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6229	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R6230	NRSA6AJ-272W	MG RESISTOR	2.7kΩ,1/16W
R6231	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6232	NRSA6AD-332W	MG RESISTOR	3.3kΩ,1/16W
R6233	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
R6234	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6235	NRSA6AJ-273W	MG RESISTOR	27kΩ,1/16W
R6236	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R6237	NRSA6AD-473W	MG RESISTOR	47kΩ,1/16W
R6238	NRSA6AD-683W	MG RESISTOR	68kΩ,1/16W
R6241	NRSA6AD-753W	MG RESISTOR	75kΩ,1/16W
R6242	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
R6243	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R6244	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R6245	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R6601	NRSA6AJ-822W	MG RESISTOR	8.2kΩ,1/16W
R6603	NRVA6AD-683W	CMF RESISTOR	68kΩ,1/16W
R6604	NRVA6AD-104W	CMF RESISTOR	100kΩ,1/16W
R6605	NRSA6AJ-184W	MG RESISTOR	180kΩ,1/16W
R6606	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R6611	NRSA6AJ-335W	MG RESISTOR	3.3MΩ,1/16W
R6612	NRSA6AJ-474W	MG RESISTOR	470kΩ,1/16W
R6613	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6614	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R6615	NRSA6AJ-684W	MG RESISTOR	680kΩ,1/16W
R6618	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R6619	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R6620	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R6621	NRSA6AJ-563W	MG RESISTOR	56kΩ,1/16W
R6623	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R6701	NRZ0058-R20X	MG RESISTOR	0.2Ω,1/2W
R6702	NRSA6AD-104W	MG RESISTOR	100kΩ,1/16W
R6703	NRSA6AD-123W	MG RESISTOR	12kΩ,1/16W
R6704	NRSA6AD-823W	MG RESISTOR	82kΩ,1/16W
R6705	NRSA6AD-333W	MG RESISTOR	33kΩ,1/16W
R8001	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8002	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8003	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8004	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8005	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8007	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R8008	NRSA6AJ-561W	MG RESISTOR	560Ω,1/16W
R8009	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8011	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8012	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8013	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8014	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8016	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8017	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8019	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8021	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8022	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8023	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R8025	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R8027	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8028	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8029	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8030	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8031	NRSA6AJ-100W	MG RESISTOR	10Ω,1/16W
R8032	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8033	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R8036	NRSA6AJ-220W	MG RESISTOR	22Ω,1/16W
R8302	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8303	NRS181J-220X	MG RESISTOR	22Ω,1/8W
R8305	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8306	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8307	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8308	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8309	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8310	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R8311	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R8313	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8314	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R8315	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
RA1001	NRZ0034-473W	NET RESISTOR	
RA1002	NRZ0034-104W	NET RESISTOR	100kW
RA1003	NRZ0034-104W	NET RESISTOR	100kW
RA1004	NRZ0034-104W	NET RESISTOR	100kW
RA1005	NRZ0034-103W	NET RESISTOR	10kΩ,1/32W
RA1006	NRZ0034-102W	NET RESISTOR	
RA1007	NRZ0034-102W	NET RESISTOR	
RA1008	NRZ0034-104W	NET RESISTOR	100kW
RA3001	NRZ0034-560W	NET RESISTOR	
RA3002	NRZ0034-560W	NET RESISTOR	
RA3003	NRZ0034-100W	NET RESISTOR	10Ω
RA3004	NRZ0034-103W	NET RESISTOR	10kΩ,1/32W
RA3005	NRZ0040-0R0X	NET RESISTOR,3216	
RA4201	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4202	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4301	NRZ0034-101W	NET RESISTOR,(1005*4)	
RA4302	NRZ0034-101W	NET RESISTOR,(1005*4)	
RA4303	NRZ0034-101W	NET RESISTOR,(1005*4)	
RA4304	NRZ0034-101W	NET RESISTOR,(1005*4)	
RA4305	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4306	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4307	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA4308	NRZ0034-100W	NET RESISTOR,(1005*4)	10Ω
RA8001	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA8002	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA8003	NRZ0034-101W	NET RESISTOR,(1005X4)	
RA8004	NRZ0034-101W	NET RESISTOR,(1005X4)	
C1001	NDCA1HJ-8R0W	C CAPACITOR	8pF,50V
C1002	NDCA1HJ-100W	C CAPACITOR	10pF,50V
C1004	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C1005	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1007	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1008	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1009	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1010	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1011	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1012	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1013	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1014	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1015	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1019	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1020	NCBA1EK-682W	C CAPACITOR	0.0068µF,25V
C1021	NCBA1EK-682W	C CAPACITOR	0.0068µF,25V
C1022	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1024	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1025	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1029	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1030	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C1032	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1035	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1036	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1037	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1038	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1039	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1040	NDCA1HJ-100W	C CAPACITOR	10pF,50V
C1041	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1042	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1043	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1044	NDCA1HJ-470W	C CAPACITOR	47pF,50V
C1045	NDCA1HJ-470W	C CAPACITOR	47pF,50V
C1046	NCF31AZ-105X	C CAPACITOR	1µF,10V
C1047	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1048	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1049	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1050	NCFA1HZ-103W	C CAPACITOR	0.01µF,50V
C1051	NCB31CK-223X	C CAPACITOR	0.022µF,16V
C1052	NCB31CK-223X	C CAPACITOR	0.022µF,16V
C1053	NCB31CK-223X	C CAPACITOR	0.022µF,16V
C1054	NCB31CK-223X	C CAPACITOR	0.022µF,16V
C1055	NCFA1AZ-104W	C CAPACITOR	0.1µF,10V
C1064	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C1601	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C1602	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C1603	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C1605	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1606	NCBA1HK-152W	C CAPACITOR	0.0015µF,50V
C1607	NCBA1CK-473W	C CAPACITOR	0.047µF,16V
C1614	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C1618	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C1619	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C1620	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C1621	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C1622	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1623	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C1624	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C1625	NCSA1HJ-101W	C CAPACITOR	100pF,50V
C1626	NCBA1CK-822W	C CAPACITOR	0.0082µF,16V
C1627	NCBA1CK-822W	C CAPACITOR	0.0082µF,16V
C1628	NCB21CK-224X	C CAPACITOR	0.22µF,16V
C1629	NBP41DM-106X	TA E CAPACITOR	10µF,20V
C1630	NCB21CK-334X	C CAPACITOR	0.33µF,16V
C1632	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C1633	NCB21CK-474X	C CAPACITOR	0.47µF,16V
C1641	NCB21CK-474X	C CAPACITOR	0.47µF,16V
C1701	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1702	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1801	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C1802	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C1803	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1804	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C1805	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C1806	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C1807	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2101	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2102	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2103	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C2104	NCBA1HK-222W	C CAPACITOR	0.0022µF,50V
C2105	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C2106	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2107	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2108	NBE20JM-475X	TA E CAPACITOR	4.7µF,6.3V
C2201	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2202	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2203	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2204	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2205	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2209	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2210	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2211	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2212	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2213	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2214	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2215	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2216	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2217	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2218	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2223	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2224	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2401	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2402	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2403	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2404	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C2405	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C2406	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C2603	NCBA1CK-153W	C CAPACITOR	0.015µF,16V
C2604	NCBA1CK-153W	C CAPACITOR	0.015µF,16V
C2605	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C2606	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C2607	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2608	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2609	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2610	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C2611	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2612	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2613	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C2614	NDCA1HJ-101W	C CAPACITOR	100pF,50V
C2615	NDCA1HJ-101W	C CAPACITOR	100pF,50V
C2801	NCB31HK-472X	C CAPACITOR	0.0047µF,50V
C2802	NCB31HK-472X	C CAPACITOR	0.0047µF,50V
C3001	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3003	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3005	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3006	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C3007	NBE20GM-476X	TA E CAPACITOR	47µF,4V
C3008	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C3009	NCB30JK-105X	C CAPACITOR	1µF,6.3V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3011	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3012	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3013	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3015	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3016	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3017	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3020	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3021	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3022	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3023	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C3024	NCBA1HK-102W	C CAPACITOR	0.001μF,50V
C3025	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3026	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C3027	NCBA1EK-472W	C CAPACITOR	0.0047μF,25V
C3028	NDCA1EJ-271W	C CAPACITOR	270pF,25V
C3029	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3030	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3031	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3032	NCBA1HK-102W	C CAPACITOR	0.001μF,50V
C3033	NDCA1HJ-220W	C CAPACITOR	22pF,50V
C3036	NDCA1HJ-8R0W	C CAPACITOR	8pF,50V
C3037	NDCA1HJ-8R0W	C CAPACITOR	8pF,50V
C3038	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3039	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3042	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3043	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3044	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3045	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3046	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3047	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3048	NCB31CK-473X	C CAPACITOR	0.047μF,16V
C3049	NCBA1HK-222W	C CAPACITOR	0.0022μF,50V
C3050	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3055	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3059	NBE20GM-226X	TA E CAPACITOR	22μF,4V
C3060	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3064	NCBA1HK-102W	C CAPACITOR	0.001μF,50V
C3066	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C3067	NCBA1HK-102W	C CAPACITOR	0.001μF,50V
C3069	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3501	NBZ0015-106X	TA E CAPACITOR	10μF,6.3V
C3502	NBZ0015-106X	TA E CAPACITOR	10μF,6.3V
C3503	NBZ0015-106X	TA E CAPACITOR	10μF,6.3V
C3504	NCBA1AK-473W	C CAPACITOR	0.047μF,10V
C3505	NCBA1CK-223W	C CAPACITOR	0.022μF,16V
C3506	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C3507	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3508	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3509	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3510	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3511	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3512	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C3513	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3514	NCBA1AK-473W	C CAPACITOR	0.047μF,10V
C3515	NCBA1AK-473W	C CAPACITOR	0.047μF,10V
C3516	NCBA1AK-473W	C CAPACITOR	0.047μF,10V
C3517	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3518	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3519	NCBA1HK-102W	C CAPACITOR	0.001μF,50V
C3520	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3521	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3522	NCB20JM-475X	C CAPACITOR	4.7μF,6.3V
C3523	NCBA1CK-103W	C CAPACITOR	0.01μF,16V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C3524	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3525	NCB20JM-475X	C CAPACITOR	4.7μF,6.3V
C3526	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3527	NDCA1EJ-221W	C CAPACITOR	220pF,25V
C3528	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3701	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C3702	NDCA1HJ-560W	C CAPACITOR	56pF,50V
C3703	NDCA1HJ-270W	C CAPACITOR	27pF,50V
C3704	NDCA1HJ-680W	C CAPACITOR	68pF,50V
C3705	NDCA1HJ-270W	C CAPACITOR	27pF,50V
C3706	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C3707	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3708	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3709	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3710	NBE20GM-226X	TA E CAPACITOR	22μF,4V
C3711	NBE20GM-226X	TA E CAPACITOR	22μF,4V
C3712	NBE40GM-107X	TA E CAPACITOR	100μF,4V
C3713	NBE20GM-107X	TA E CAPACITOR	100μF,4V
C3715	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3731	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3732	NCBA1HK-102W	C CAPACITOR	0.001μF,50V
C3733	NDCA1HJ-3R0W	C CAPACITOR	3pF,50V
C3734	NDCA1HJ-5R0W	C CAPACITOR	5pF,50V
C3735	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C3736	NCBA1HK-102W	C CAPACITOR	0.001μF,50V
C3738	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3739	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3740	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C3741	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C3742	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3743	NDCA1HJ-3R0W	C CAPACITOR	3pF,50V
C3744	NDCA1HJ-5R0W	C CAPACITOR	5pF,50V
C3745	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C3746	NCB20JM-475X	C CAPACITOR	4.7μF,6.3V
C3747	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3801	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C3802	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C3803	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C3804	NBE20GM-476X	TA E CAPACITOR	47μF,4V
C3805	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3806	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3807	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3808	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3809	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C3810	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3811	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C3812	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3813	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3814	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C3815	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3816	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3817	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3818	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C3819	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C4202	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C4203	NCB21AK-105X	C CAPACITOR	1μF,10V
C4204	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C4205	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C4206	NCB21CK-105X	C CAPACITOR	1μF,16V
C4207	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C4208	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C4209	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C4210	NCBA1AK-104W	C CAPACITOR	0.1μF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C4211	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4212	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4213	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4214	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4216	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4217	NCB21AK-105X	C CAPACITOR	1µF,10V
C4301	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4302	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4303	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4304	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4305	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4306	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4307	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4308	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4309	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4310	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4311	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4312	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4313	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C4314	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4315	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C4316	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C4317	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5501	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5503	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5504	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5506	NBE40GM-476X	TA E CAPACITOR	47µF,4.0V
C5507	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5508	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5509	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5510	NBP21VM-105X	TA E CAPACITOR	1µF,35V
C5511	NBP21DM-475X	TA E CAPACITOR	4.7µF,20V
C5512	NBE21AM-106X	TA E CAPACITOR	10µF,10V
C5513	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C5514	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5515	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5516	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5517	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C5518	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C5519	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6001	NCB31EK-103X	C CAPACITOR	0.01µF,25V
C6002	NCB31CK-104X	C CAPACITOR	0.1µF,16V
C6003	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C6004	NCB21CK-105X	C CAPACITOR	1µF,16V
C6005	NBE20JM-226X	TA E CAPACITOR	22µF,6.3V
C6008	NDCA1HJ-151W	C CAPACITOR	150pF,50V
C6101	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6103	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6104	NCBA1CK-223W	C CAPACITOR	0.022µF,16V
C6105	NCB21CK-105X	C CAPACITOR	1µF,16V
C6106	NBP41DM-106X	TA E CAPACITOR	10µF,20V
C6107	NCB21CK-105X	C CAPACITOR	1µF,16V
C6108	NCB21CK-105X	C CAPACITOR	1µF,16V
C6109	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6110	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6111	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6112	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6113	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6114	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6115	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6116	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6117	NCBA1AK-333W	C CAPACITOR	0.033µF,10V
C6118	NCBA1HK-561W	C CAPACITOR	560pF,50V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C6119	NCBA1HK-272W	C CAPACITOR	0.0027µF,50V
C6120	NCBA1HK-561W	C CAPACITOR	560pF,50V
C6121	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6123	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6124	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6125	NDCA1HJ-101W	C CAPACITOR	100pF,50V
C6126	NCB31CK-473X	C CAPACITOR	0.047µF,16V
C6127	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C6128	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C6129	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6130	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6131	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6132	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6133	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6134	NCB21CK-105X	C CAPACITOR	1µF,16V
C6201	NCB21CK-105X	C CAPACITOR	1µF,16V
C6202	NCB10JK-106X	C CAPACITOR	10µF,6.3V
C6203	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6204	NCBA1HK-561W	C CAPACITOR	560pF,50V
C6205	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6206	NCB21CK-105X	C CAPACITOR	1µF,16V
C6207	NCB10JK-106X	C CAPACITOR	10µF,6.3V
C6208	NCBA1EK-472W	C CAPACITOR	0.0047µF,25V
C6209	NCB21CK-105X	C CAPACITOR	1µF,16V
C6210	NCB10JK-106X	C CAPACITOR	10µF,6.3V
C6211	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6212	NCB21CK-105X	C CAPACITOR	1µF,16V
C6213	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6214	NCBA1AK-683W	C CAPACITOR	0.068µF,10V
C6215	NCB21CK-105X	C CAPACITOR	1µF,16V
C6216	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C6217	NCB21CK-105X	C CAPACITOR	1µF,16V
C6218	NCB21CK-105X	C CAPACITOR	1µF,16V
C6219	NCB11EK-105X	C CAPACITOR	1µF,25V
C6220	NCB21CK-105X	C CAPACITOR	1µF,16V
C6222	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6223	NCB21CK-105X	C CAPACITOR	1µF,16V
C6224	NCB11EK-105X	C CAPACITOR	1µF,25V
C6225	NCB21CK-105X	C CAPACITOR	1µF,16V
C6226	NCB21CK-105X	C CAPACITOR	1µF,16V
C6601	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6602	NCB21CK-105X	C CAPACITOR	1µF,16V
C6603	NCBA1HK-102W	C CAPACITOR	0.001µF,50V
C6604	NCBA1AK-473W	C CAPACITOR	0.047µF,10V
C6611	NCBA1HK-332W	C CAPACITOR	0.0033µF,50V
C6612	NDCA1EJ-221W	C CAPACITOR	220pF,25V
C6613	NDCA1EJ-121W	C CAPACITOR	120pF,25V
C6614	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C6701	NCB21CK-105X	C CAPACITOR	1µF,16V
C6702	NCB21CK-105X	C CAPACITOR	1µF,16V
C8001	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8002	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8003	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8004	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8005	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8006	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8007	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8008	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8009	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8010	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8011	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8012	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8013	NCBA1AK-104W	C CAPACITOR	0.1µF,10V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
C8014	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8015	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8016	NCB30JK-105X	C CAPACITOR	1µF,6.3V
C8017	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C8018	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8021	NCBA1CK-103W	C CAPACITOR	0.01µF,16V
C8022	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8023	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8024	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8025	NBE20JM-106X	TA E CAPACITOR	10µF,6.3V
C8026	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8034	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8301	NBZ0015-106X	TA E CAPACITOR	10µF,6.3V
C8305	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8306	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8307	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8310	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
C8311	NCBA1AK-104W	C CAPACITOR	0.1µF,10V
L1001	NQL402M-100X	INDUCTOR	10µH
L1002	NQL402M-100X	INDUCTOR	10µH
L1801	NQL402M-100X	INDUCTOR	10µH
L2101	NQL402M-100X	INDUCTOR	10µH
L2401	NQL402M-100X	INDUCTOR	10µH
L2402	NQL402M-100X	INDUCTOR	10µH
L2601	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2602	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2603	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2801	NQR0251-004X	FERRITE BEADS	
L2802	NQR0251-004X	FERRITE BEADS	
L2803	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2804	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L2805	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
L3001	NQR0129-002X	FERRITE BEADS	
L3002	NQR0129-002X	FERRITE BEADS	
L3004	NQR0006-001X	FERRITE BEADS	
L3005	NQR0006-001X	FERRITE BEADS	
L3007	NQL085J-2R2X	INDUCTOR	2.2µH
L3008	NQL085J-120X	INDUCTOR	12µH
L3012	NQR0129-002X	FERRITE BEADS	
L3014	NQL38DK-100X	P COIL	10µH
L3015	NQR0006-001X	FERRITE BEADS	
L3501	NQR0129-002X	FERRITE BEADS	
L3502	NQL402M-100X	INDUCTOR	10µH
L3503	NQR0006-001X	FERRITE BEADS	
L3504	NQR0006-001X	FERRITE BEADS	
L3505	NQR0006-001X	FERRITE BEADS	
L3701	NQL38DK-100X	P COIL	10µH
L3731	NQL085J-6R8X	INDUCTOR	6.8µH
L3732	NQL085J-6R8X	INDUCTOR	6.8µH
L3801	NQR0129-002X	FERRITE BEADS	
L3802	NQR0129-002X	FERRITE BEADS	
L3803	NQR0006-001X	FERRITE BEADS	
L3804	NQL38DK-100X	P COIL	10µH
L4201	NQR0129-002X	FERRITE BEADS	
L4301	NQR0129-002X	FERRITE BEADS	
L4302	NQR0129-002X	FERRITE BEADS	
L5501	NQL315K-100X	INDUCTOR	10µH
L5502	NQR0129-002X	FERRITE BEADS	
L5503	NQR0129-002X	FERRITE BEADS	
L5504	NQR0129-002X	FERRITE BEADS	
L5505	NQL315K-100X	INDUCTOR	10µH
L5506	NQL315K-100X	INDUCTOR	10µH
L6001	NQL62EM-470X	INDUCTOR	47µH

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
L6101	NQLZ011-4R7X	INDUCTOR	4.7µH
L6102	NQLZ011-4R7X	INDUCTOR	4.7µH
L6201	NQLZ010-390X	INDUCTOR	39µH
L6202	NQLZ011-390X	INDUCTOR	39µH
L6203	NQLZ011-390X	INDUCTOR	39µH
L6204	NQL144K-220X	P COIL	22µH
L6205	NQL62EM-470X	INDUCTOR	47µH
L6206	NQL62EM-470X	INDUCTOR	47µH
L6207	NQLZ011-221X	INDUCTOR	220µH
L6601	NQR0006-001X	FERRITE BEADS	
L6602	NQR0129-002X	FERRITE BEADS	
L6701	NQL52EM-100X	INDUCTOR	10µH
L8001	NQR0129-002X	FERRITE BEADS	
L8002	NQR0129-002X	FERRITE BEADS	
L8003	NQR0129-002X	FERRITE BEADS	
L8004	NQR0006-001X	FERRITE BEADS	
L8005	NQR0129-002X	FERRITE BEADS	
L8006	NQR0006-001X	FERRITE BEADS	
L8301	NQR0129-002X	FERRITE BEADS	
J101	QNZ0518-002	D CONNECTOR,DV	
J102	QNZ0617-001	USB CONNECTOR,USB	
J103	NNZ0088-001X	M CONNECTOR,MULTI	
J104	QNA0035-001	DC JACK,DC JACK	
TH6601	NRSA63J-0R0X	MG RESISTOR,1608	0Ω,1/16W
X1001	NAX0578-001X	CRYSTAL	20MHz
X1002	NAX0564-001X	CRYSTAL	
X3002	NAX0480-001X	CRYSTAL	24.576MHz
X5501	NAX0587-001X	CXO,54MHZ 5*3	
X8301	NAX0612-001X	C RESONATOR	6MHz
SD1	LY33355-001A	SHIELD CASE(PR),PRE/REC	
BK1	LY44288-001A	BRACKET(MULTI),FOR J103	
OT1	LY30030-099A	SPACER(A)	
OT2	LY30030-0A2A	SPACER(A)	
OT3	LY30030-0A3A	SPACER(A)	
OT4	LY30030-0A4A	SPACER(A)	
OT5	LY30030-0A5A	SPACER(A)	
OT6	LY44243-001A	SHEET(PWB),B TO B	
OT7	LY30030-0F6A	SPACER(A)	
OT8	LY30030-0M3A	SPACER(A),FOR J103	
CN101	QGF0530F1-17W	FPC CONNE,BATT.TERM.	
CN102	QGF0532F1-20X	FFC/FPC CONNE,CCD	
CN103	QGF0517F1-06X	FPC CONNE,LOAD.MOTOR	
CN104	QGF0517F2-11X	FPC CONNE,DRUM MOTOR	
CN105	QGB0509M3-30X	B TO B CONNE,JIG CN	
CN106	QGF0517F2-16X	FPC CONNE,SENSOR	FPC(1-16)
CN107	QGF0517F2-06X	FPC CONNE,R.ENC	
CN108	QGF0517F2-18X	FPC CONNE,CAPSTAN	
CN109	QGB0405L1-60X	B TO B CONNE,SD PWB	
CN110	QGF0517F1-08X	FPC CONNE,HEAD	FFC/FPC(1-8)
CN111	QGF0517F2-11X	FPC CONNE,CAMERA OPE	
CN112	QGF0517F1-09X	FPC CONNE,SUB OPE	
CN113	QGF0306F2-49X	FFC/FPC CONNE,MONI PWB	
CN114	QGA1001F1-04X	W TO B CONNE,MIC	
CN115	QGF0532F1-12X	FFC/FPC CONNE,STROBE PWB	
⚠ F1601	NMFZ007-R20X-K	FUSE,UNREG	0.2A,50V
⚠ F1602	NMFZ007-R50X-K	FUSE,REG_3V	0.5A,50V
⚠ F6001	NMFZ007-R50X-K	FUSE	0.5A,50V
⚠ F6101	NMFZ007-2R0X-K	FUSE	2A,32V
⚠ F6201	NMFZ007-1R25X-K	FUSE	1.25A,32V
⚠ F6701	NMFZ007-1R25X-K	FUSE	1.25A,32V

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	

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CCD BOARD ASSEMBLY <02>

PW1	YB10429A-01	CCD PWB ASS'Y,02	
Q5001	2SC3931/CD/-X	TRANSISTOR	
R5001	NRSA63J-182X	MG RESISTOR	1.8kΩ,1/16W
R5002	NRSA63J-104X	MG RESISTOR	100kΩ,1/16W
R5006	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
C5001	NBP41DM-106X	TA E CAPACITOR	10μF,20V
C5002	NCF31EZ-104X	C CAPACITOR	0.1μF,25V
C5003	NBE21AM-106X	TA E CAPACITOR	10μF,10V
C5004	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C5005	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C5006	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C5007	NCB31HK-222X	C CAPACITOR	0.0022μF,50V
L5001	NQL315K-100X	INDUCTOR	10μH
L5002	NQL315K-100X	INDUCTOR	10μH

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SD BOARD ASSEMBLY <03>

PW1	YB10431A-01	SD PWB ASS'Y,03	
IC4802	BA10358FVM-W	IC,HALL AMP+	
IC4803	BA10358FVM-W	IC,HALL AMP-	
IC4804	LM358DR2-X	IC,DRIVE AMP	
IC4807	SN74AHC2G66U-X	IC,DUMP CUT	
IC4851	UPD16879GS-X	IC,F/Z_MDA	
Q4801	2SC4655/BC/-X	TRANSISTOR,HALL DRIVE	
Q4802	2SC4617/RS/-X	TRANSISTOR,2SC4617/RS	
Q4803	DTC144EE-X	DIGI TRANSISTOR,DTC144EE	
Q4804	DTA144EE-X	DIGI TRANSISTOR,DTA144EE	
Q4805	DTA143EE-X	DIGI TRANSISTOR,DTA143EE	
Q4806	2SC4617/QR/-X	TRANSISTOR,2SC4617/QR	
Q4851	2SC4617/RS/-X	TRANSISTOR	
D8501	EMZ6.8N-X	Z DIODE	
D8502	UMZ6.8EN-W	Z DIODE	
R8501	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8502	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8503	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8504	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8505	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8506	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R8507	NRSA63J-0R0X	MG RESISTOR	0Ω,1/16W
R8508	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R8509	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4804	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4805	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4806	NRSA6AJ-683W	MG RESISTOR	68kΩ,1/16W
R4807	NRSA6AJ-823W	MG RESISTOR	82kΩ,1/16W
R4808	NRSA6AJ-243W	MG RESISTOR	24kΩ,1/16W
R4809	NRSA6AJ-681W	MG RESISTOR	680Ω,1/16W
R4810	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4811	NRSA6AJ-824W	MG RESISTOR	820kΩ,1/16
R4812	NRSA6AJ-153W	MG RESISTOR	15kΩ,1/16W
R4814	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4815	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4816	NRSA6AJ-105W	MG RESISTOR	1MΩ,1/16W
R4817	NRSA6AJ-334W	MG RESISTOR	330kΩ,1/16W
R4818	NRSA6AJ-154W	MG RESISTOR	150kΩ,1/16W
R4819	NRSA6AJ-103W	MG RESISTOR	10kΩ,1/16W
R4820	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
R4821	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4822	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4823	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4824	NRSA6AJ-472W	MG RESISTOR	4.7kΩ,1/16W
R4825	NRSA6AJ-222W	MG RESISTOR	2.2kΩ,1/16W
R4826	NRSA6AJ-473W	MG RESISTOR	47kΩ,1/16W
R4827	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4828	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4833	NRSA6AJ-104W	MG RESISTOR	100kΩ,1/16W
R4836	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4837	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4839	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4840	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4843	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4844	NRSA6AJ-151W	MG RESISTOR	150Ω,1/16W
R4846	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4849	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4854	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4856	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4857	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4858	NRSA6AJ-333W	MG RESISTOR	33kΩ,1/16W
R4859	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4860	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4862	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4863	NRSA6AJ-6R8W	MG RESISTOR	6.8Ω,1/16W
R4864	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4865	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4866	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4867	NRSA6AJ-102W	MG RESISTOR	1kΩ,1/16W
R4868	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4870	NRSA6AJ-271W	MG RESISTOR	270Ω,1/16W
R4871	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4874	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
R4875	NRSA6AJ-0R0W	MG RESISTOR	0Ω,1/16W
C8501	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C8502	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
C4803	NBZ0015-106X	TA E CAPACITOR	10μF,6.3V
C4804	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4806	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4808	NCB30JK-105X	C CAPACITOR	1μF,6.3V
C4809	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4810	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C4811	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C4812	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4813	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4814	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4815	NCB31HK-152X	C CAPACITOR	0.0015μF,50V
C4819	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C4851	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C4852	NCFA1AZ-104W	C CAPACITOR	0.1μF,10V
C4853	NBE21AM-335X	TA E CAPACITOR	3.3μF,10V
C4854	NBE21AM-106X	TA E CAPACITOR	10μF,10V
C4855	NCB31CK-104X	C CAPACITOR	0.1μF,16V
C4858	NDCA1HJ-330W	C CAPACITOR	33pF,50V
C4859	NCBA1CK-223W	C CAPACITOR	0.022μF,16V
C4860	NCBA1CK-223W	C CAPACITOR	0.022μF,16V
C4861	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C4862	NCBA1CK-103W	C CAPACITOR	0.01μF,16V
C4864	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
C4865	NCBA1AK-104W	C CAPACITOR	0.1μF,10V
L8501	NQR0006-001X	FERRITE BEADS	
L4802	NQL302N-100X	INDUCTOR	10μH
L4851	NQR0129-002X	FERRITE BEADS	

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	L4852	NQL315K-100X	INDUCTOR	10µH
	L4853	NQL315K-100X	INDUCTOR	10µH
	OT1	LY30029-0K7A	SPACER(A)	
	CN301	QGB0405M1-60X	B TO B CONNE,60P B/B	
	CN302	QGF0530F1-24W	FPC CONNE,OP	
	CN303	QGF0517F1-07X	FPC CONNE,SIDE OPE	
	CN304	QGF0530F1-18W	FPC CONNE,VF	
	CN305	NNZ0067-001X	SD CARD CONNE,SD CN	

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SIDE OPE BOARD ASSEMBLY <04>

	PW1	YB20950A-01	SIDE OPE P.ASSY,04	
	R401	NRSA6AJ-223W	MG RESISTOR	22kΩ,1/16W
	R402	NRSA6AJ-682W	MG RESISTOR	6.8kΩ,1/16W
	R403	NRSA6AJ-332W	MG RESISTOR	3.3kΩ,1/16W
	S401	NSW0198-001X	TACT SWITCH	
	S402	NSW0198-001X	TACT SWITCH	
	S403	NSW0198-001X	TACT SWITCH	
	S405	NSW0099-001X	SLIDE SWITCH	
	S406	NSW0120-002X	PUSH SWITCH,EJECT SW	
	S407	NSW0201-001X	PUSH SWITCH,VF SW	
⚠	BT401	QAB0040-001	LI BATTERY	
	SD1	LY44286-001A	SHIELD(SIDE OPE	
	CN401	QGF0517F1-07X	FPC CONNE,SD PWB	

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STROBE BOARD ASSEMBLY <07>

	PW1	YB20951A-01	STROBE P.ASS'Y,07	
	IC6502	TC7SET08FU-X	IC(DIGITAL)	
	Q6501	2SB1462J/RS/-X	TRANSISTOR	
	Q6502	UN9211J-X	DIGI TRANSISTOR	
	Q6502	or DTC114EE-X	DIGI TRANSISTOR	
⚠	Q6503	2SB1124/ST/-X	CHIP TRANSISTOR	
	Q6504	2SD1628/FG/-X	TRANSISTOR	
	Q6506	CT25ASJ-8-X	POW TRANSISTOR	
	D6501	F1F16-X	SI DIODE	
	D6502	DA121-X	DIODE	
	D6503	F1SN4-X	SI DIODE	
	D6504	CRG02-X	SI DIODE	
	R6501	NRSA63J-3R9X	MG RESISTOR	3.9Ω,1/16W
	R6502	NRSA63J-4R7X	MG RESISTOR	4.7Ω,1/16W
	R6504	NRSA63J-471X	MG RESISTOR	470Ω,1/16W
	R6505	NRSA63J-222X	MG RESISTOR	2.2kΩ,1/16W
	R6506	NRSA63J-152X	MG RESISTOR	1.5kΩ,1/16W
	R6507	NRSA02J-106X	MG RESISTOR	10MΩ,1/10W
	R6508	NRVA63D-184X	CMF RESISTOR	180kΩ,1/16W
	R6511	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R6514	NRSA02J-105X	MG RESISTOR	1MΩ,1/10W
	R6515	NRS181J-220X	MG RESISTOR	22Ω,1/8W
	R6516	NRSA02J-104X	MG RESISTOR	100kΩ,1/10W
	R6519	NRSA02J-106X	MG RESISTOR	10MΩ,1/10W
	R6520	NRSA63J-330X	MG RESISTOR	33Ω,1/16W
	R6527	NRSA63J-391X	MG RESISTOR	390Ω,1/16W
	C6501	NBE41AM-336X	TA E CAPACITOR	33µF,10V
	C6502	NBE41AM-226X	TA E CAPACITOR	22µF,10V
	C6503	NCB31EK-103X	C CAPACITOR	0.01µF,25V
	C6506	NCZ1008-333X	C CAPACITOR	0.033µF
	C6508	NCB31EK-103X	C CAPACITOR	0.01µF,25V
	C6509	NCZ1024-103X	C CAPACITOR	0.01µF,250V

# ⚠	REF No.	PART No.	PART NAME, DESCRIPTION	
	C6510	NCZ1043-333X	C CAPACITOR	0.033µF,250V
	C6512	QEZ0450-326	E CAPACITOR,by hand	32µF,300V
	L6501	NQS0042-001X	SIGNAL SW TRANS	
	L6502	NQL302N-100X	INDUCTOR	10µH
	L6503	NQL044K-470X	P COIL	47µH
	WR1	WJV0070-001A	E-PRIMARY WIRE	
	WR2	WJV0071-001A	E-PRIMARY WIRE	
	UN1	LY33438-001B	STROBE ASSY	
	OT1	LY30030-098A	SPACER(A),WIRE HOLD	
	OT2	LY30030-0K6A	SPACER(A),Q6503	
	OT3	LY41409-002A	SPACER(STROBO),SENSOR	
	CN6501	QGF0517F1-12X	FPC CONNE,SD PWB	

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MONITOR BOARD ASSEMBLY <06>

PW1	YB20952C-02	MONITOR P ASS'Y,06,DX75US	
PW1	YB20952D-02	MONITOR P ASS'Y,06,DX95US	
IC7601	AN12550A	IC	
IC7602	LM358DR2-X	IC	
IC7603	———	IC	
IC7604	MM1385GN-X	IC	
IC7605	TA75S393F-X	IC	
IC7606	SN74AHC1G08K-X	IC	
Q7501	2SD1664/QR/-W	TRANSISTOR	
Q7502	2SD1664/QR/-W	TRANSISTOR	
Q7503	DTA144EE-X	DIGI TRANSISTOR	
Q7503	or RN2104-X	DIGI TRANSISTOR	
Q7503	or UN9113J-X	DIGI TRANSISTOR	
Q7504	2SC4617/QR/-X	TRANSISTOR	
Q7504	or 2SC4738/YG/-X	TRANSISTOR	
Q7601	2SC4617/QR/-X	TRANSISTOR	
Q7601	or 2SC4738/YG/-X	TRANSISTOR	
Q7602	2SA1774/QR/-X	TRANSISTOR	
Q7602	or 2SA1832/YG/-X	TRANSISTOR	
Q7603	2SC4617/QR/-X	TRANSISTOR	
Q7603	or 2SC4738/YG/-X	TRANSISTOR	
Q7604	2SA1774/QR/-X	TRANSISTOR	
Q7604	or 2SA1832/YG/-X	TRANSISTOR	
Q7605	UMD3N-W	DIGI TRANSISTOR	
Q7605	or XP4311-W	DIGI TRANSISTOR	
Q7606	UMD3N-W	DIGI TRANSISTOR,3.0,DX95US	
Q7607	DTA124EE-X	DIGI TRANSISTOR	
Q7608	DTC124EE-X	DIGI TRANSISTOR	
Q7609	2SD2654/VW/-X	TRANSISTOR	
Q7610	2SC4617/QR/-X	TRANSISTOR	
D7601	RB480Y-W	SB DIODE	
D7602	MA111-X	SI DIODE	
R7501	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R7502	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R7503	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
R7506	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R7507	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
R7601	NRVA63D-622X	CMF RESISTOR	6.2kΩ,1/16W
R7602	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W
R7604	NRVA63D-223X	CMF RESISTOR,DX75US	22kΩ,1/16W
R7604	NRVA63D-682X	CMF RESISTOR,DX95US	6.8kΩ,1/16W
R7605	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
R7606	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
R7607	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7608	NRSA63J-223X	MG RESISTOR	22kΩ,1/16W
R7609	NRSA02J-330X	MG RESISTOR	33Ω,1/10W

# ⚠ REF No.	PART No.	PART NAME, DESCRIPTION	
	R7610	NRSA02J-330X	MG RESISTOR	33Ω,1/10W
	R7611	NRSA63J-333X	MG RESISTOR	33kΩ,1/16W
	R7612	NRSA63J-335X	MG RESISTOR	3.3MΩ,1/16W
	R7614	NRVA63D-223X	CMF RESISTOR	22kΩ,1/16W
	R7615	NRVA63D-433X	CMF RESISTOR	43kΩ,1/16W
	R7616	NRVA63D-821X	CMF RESISTOR	820Ω,1/16W
	R7617	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W
	R7619	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R7621	NRSA63J-332X	MG RESISTOR	3.3kΩ,1/16W
	R7622	NRSA63J-0R0X	MG RESISTOR,DX75US	0Ω,1/16W
	R7623	NRSA63J-223X	MG RESISTOR,DX95US	22kΩ,1/16W
	R7624	NRSA63J-0R0X	MG RESISTOR,DX95US	0Ω,1/16W
	R7625	NRSA63J-223X	MG RESISTOR,DX95US	22kΩ,1/16W
	R7626	NRSA63J-223X	MG RESISTOR,DX95US	22kΩ,1/16W
	R7628	NRVA63D-333X	CMF RESISTOR	33kΩ,1/16W
	R7629	NRVA63D-153X	CMF RESISTOR	15kΩ,1/16W
	R7630	NRVA63D-222X	CMF RESISTOR	2.2kΩ,1/16W
	R7631	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W
	R7632	NRSA63J-394X	MG RESISTOR	390kΩ,1/16W
	R7633	NRSA63J-103X	MG RESISTOR	10kΩ,1/16W
	R7634	NRSA63J-153X	MG RESISTOR	15kΩ,1/16W
	R7635	NRSA63J-393X	MG RESISTOR	39kΩ,1/16W
	R7636	NRSA63J-562X	MG RESISTOR	5.6kΩ,1/16W
	R7639	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	R7640	NRSA63J-473X	MG RESISTOR	47kΩ,1/16W
	C7501	NCZ1016-100X	C CAPACITOR	10pF,2kV
	C7503	NFV41HJ-183X	MPPS CAPACITOR	0.018μF,50V
	C7504	NCB31EK-103X	C CAPACITOR	0.01μF,25V
	C7505	NBE20JM-106X	TA E CAPACITOR	10μF,6.3V
	C7510	NCB10JK-106X	C CAPACITOR	10μF,6.3V
	C7601	NBE90JM-106X	TA E CAPACITOR	10μF,6.3V
	C7602	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7603	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7604	NBE21AM-106X	TA E CAPACITOR	10μF,10V
	C7605	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7606	NCB11CK-225X-A	C CAPACITOR	2.2μF,16V
	C7607	NCB11CK-225X-A	C CAPACITOR	2.2μF,16V
	C7608	NCB11CK-225X-A	C CAPACITOR	2.2μF,16V
	C7609	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7610	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7611	NCB11CK-225X	C CAPACITOR	2.2μF,16V
	C7612	NCB21CK-105X	C CAPACITOR	1μF,16V
	C7613	NBP41DM-106X	TA E CAPACITOR	10μF,20V
	C7614	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7615	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7616	NRSA02J-274X	MG RESISTOR	270kΩ,1/10W
	C7617	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7618	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7619	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7620	NCB31EK-103X	C CAPACITOR	0.01μF,25V
	C7621	NCB31HK-152X	C CAPACITOR	0.0015μF,50V
	C7622	NBE20JM-225X	TA E CAPACITOR	2.2μF,6.3V
	C7623	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7624	NBE90JM-106X	TA E CAPACITOR	10μF,6.3V
	C7625	NCB31HK-102X	C CAPACITOR	0.001μF,50V
	C7626	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7627	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7628	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7629	NBP41EM-475X	TA E CAPACITOR	4.7μF,25V
	C7631	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7632	NBP41EM-475X	TA E CAPACITOR	4.7μF,25V
	C7633	NCB21CK-105X	C CAPACITOR	1μF,16V
	C7634	NBE90JM-106X	TA E CAPACITOR	10μF,6.3V
	C7635	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7636	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7637	NCB11CK-105X	C CAPACITOR	1μF,16V
	C7638	NCB31EK-103X	C CAPACITOR	0.01μF,25V
	C7639	NBE90JM-106X	TA E CAPACITOR	10μF,6.3V
	C7640	NCB31EK-103X	C CAPACITOR	0.01μF,25V
	C7642	NCB30JK-105X	C CAPACITOR	1μF,6.3V
	C7643	NBP21CM-335X	TA E CAPACITOR	3.3μF,16V
	C7645	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7646	NCB31EK-103X	C CAPACITOR	0.01μF,25V
	C7647	NBE90JM-106X	TA E CAPACITOR	10μF,6.3V
	C7648	NCB31CK-104X	C CAPACITOR,DX95US	0.1μF,16V
	C7649	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7651	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	C7652	NCB31CK-104X	C CAPACITOR	0.1μF,16V
	L7501	NQL76EM-680X	INDUCTOR	68μH
	L7502	NQL76EM-220X	INDUCTOR	22μH
	L7601	NQL04DK-100X	INDUCTOR	10μH
	L7602	NQL04DK-100X	INDUCTOR	10μH
	L7603	NQL04DK-100X	INDUCTOR	10μH
	L7604	NQL04DK-100X	INDUCTOR	10μH
	L7605	NQL04DK-100X	INDUCTOR	10μH
	L7606	NQL04DK-100X	INDUCTOR,DX75US	10μH
	L7607	NQL04DK-100X	INDUCTOR	10μH
	L7608	NQL04DK-100X	INDUCTOR,DX95US	10μH
⚠	T7501	NQS0059-001X	SIGNAL SW TRANS	
	WR1	YU40017-015-1	THIN WIRE,GND	
	CN7601	QGF0306F2-45X	FFC/FPC CONNE,MAIN	
	CN7602	QGF0530F1-24W	FPC CONNE,LCD	
⚠	F7501	NMFZ007-R40X-K	FUSE	0.4A,50V

****

VFBW BOARD ASSEMBLY <08>

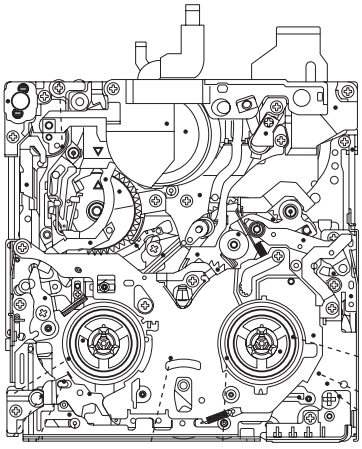
	PW1	YB20954A-01	VFBW P.ASS'Y,07 (BW VF)	
	Q7001	PUMX1-W	PAIR TRANSISTOR	
	D7001	E1S35AW0C501-X	LED	
	R7001	NRVA63D-332X	CMF RESISTOR	3.3kΩ,1/16W
	R7002	NRVA63D-561X	CMF RESISTOR	560Ω,1/16W
	R7003	NRSA63J-820X	MG RESISTOR	82Ω,1/16W
	R7004	NRSA63J-102X	MG RESISTOR	1kΩ,1/16W
	C7001	NCF31CZ-104X	C CAPACITOR	0.1μF,16V
	C7002	NCF31CZ-104X	C CAPACITOR	0.1μF,16V
	C7003	NCF31CZ-104X	C CAPACITOR	0.1μF,16V
	C7004	NCF31CZ-104X	C CAPACITOR	0.1μF,16V
	CN7001	QGF0530F1-18W	FPC CONNE,SD	
	CN7002	QGF0530F1-20W	FPC CONNE,LCD	

JVC

SERVICE MANUAL

MECHANISM ASSEMBLY

DVC MECHANISM
VHS-C MECHANISM
VHS MECHANISM



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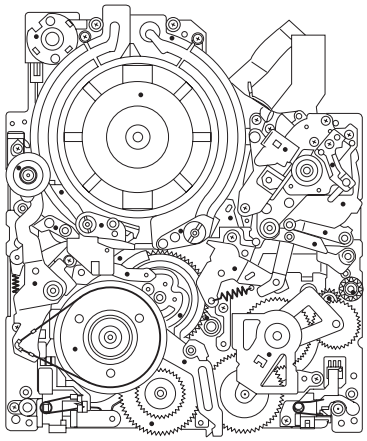

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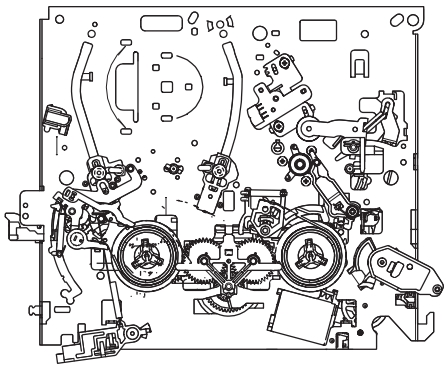

<VHS MECHANISM>

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2 SPECIFIC SERVICE INSTRUCTIONS 2-1
3 PARTS LIST 3-1

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No.86700
2003/04

SECTION 1
JIGS AND TOOLS

1.1 TOOLS REQUIRED FOR ADJUSTMENTS

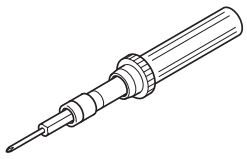
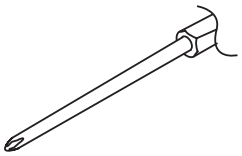
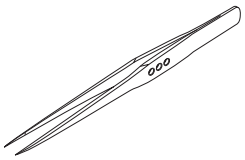
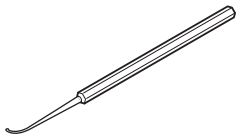
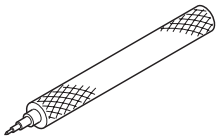
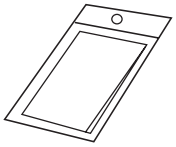
1. Torque driver YTU94088	2. Bit YTU94088-003
	
3. Tweezers P-895	4. Chip IC replacement jig PTS40844-2
	
5. Slit washer installation jig YTU94121A	6. Cleaning cloth KSMM-01
	

Fig.1-1-1

1. Torque driver
Be sure to use to fastening the mechanism and exterior parts because those parts must strictly be controlled for tightening torque.
Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.

2. Bit
This bit is slightly longer than those set in conventional torque drivers.

3. Tweezers
To be used for removing and installing parts and wires.

4. Chip IC replacement jig
To be used for replacement of part.

5. Slit washer installation jig
To be used to install slit washers.

6. Cleaning cloth
Recommended cleaning cloth to wipe down the video heads, mechanism (tape transport system), optical lens surface.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

2.1 DVC MECHANISM

2.1.1 Precautions

(1) When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.055 N•m (0.56 kgf•cm).
(2) Be sure to disconnect the set from the power supply before fastening and soldering parts.
(3) When disconnecting/connecting wires, be careful not to get them and their connectors damaged.
(4) When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

2.1.2 Notes on procedure for disassembly/assembly

The disassembling procedure table (Fig. 2-1-10 on page 2-4,a part of the table is shown below for reference)shows the procedure to disassemble/reassemble mechanism parts.
Carefully read the following explanation before starting actual disassembling/reassembling work. The item numbers(circled numbers)in the following explanation correspond to those appearing under respective columns of the table.

Example

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
[1]	CASSETTE HOUSING ASSY	T	Fig.2-4-3	3(S1),(L1a)-(L1e)	**NOTE 1 a,b,c,d**	ADJUSTMENT
[2]	UPPER BASE ASSY	T	Fig.2-4-4	(S2),(L2a),(L2b)	**NOTE 2**	
[3]	DRUM ASSY	T		(S3a),2(S3b)	**NOTE 3 a,b**	
[4]	REEL DISK ASSY(SUP)	T	Fig.2-4-5	(W4)	**NOTE 4 a**	
[5]	REEL DISK ASSY(TU)	T		(W5a),(W5b),(W5c)	**NOTE 5 a,b**	
[6]	REEL COVER ASSY	T		(W6),(S6a),2(S6b)	**NOTE 6**	ADJUSTMENT

*1 *2 *3 *4 *5 *6 *7

*1 Numbers appearing in this column indicate the order to remove parts. When reassembling, follow these numbers in the reverse order. Circled numbers in this column correspond to those appearing in drawings of this section.
*2 This column shows part names corresponding to numbers in the left column.
*3 The symbol (T or B)appearing in this column shows the side which the objective part is mounted on.
T =the upper side, B =the lower side
*4 Symbols appearing in this column indicate drawing numbers.
*5 This column indicates parts and points such as screws, washers,springs,and others to be removed/fitted for disassembling/reassembling the mechanism. Besides such the parts, this column occasionally indicates working points.

P = Spring
W = Washer
S = Screw
* = Lock (L),soldering (SD),shield,connector (CN),etc.

Example

- Remove (W1)=Washer W1.
- Remove the solder at (SD1)=Point SD1.
- Disconnect A = Connector A.

*6 Numbers in this column represent the numbers of notes in the text.
(For parts that need phase adjustment after reassembling, refer to “MECHANISM ADJUSTMENTS”.)
*7 This column indicates required after-disassembling/-reassembling work such as phase adjustment or mechanism adjustment.

2.1.3 DISASSEMBLY AND ASSEMBLY OF MECHANISM ASSEMBLY

2.1.3.1 General statement

The mechanism should generally be disassembled/assembled in the C.IN mode (ASSEMBLY mode). (Refer to Fig. 2-1-1,2-1-2.) However, when the mechanism is removed from the main body, it is set in the STOP mode. Therefore, after the mechanism is removed from the main body, supply 3 V DC to the electrode on the top of the loading motor to enter the mechanism mode into the C IN mode compulsory.

<Mechanism assembly/Cassette housing assembly>

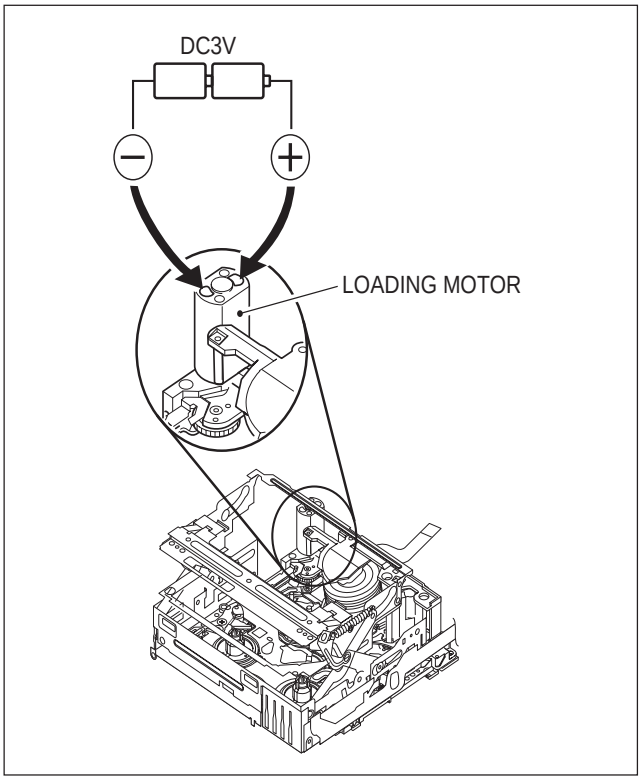


Fig.2-1-1

<Back side of the mechanism assembly>

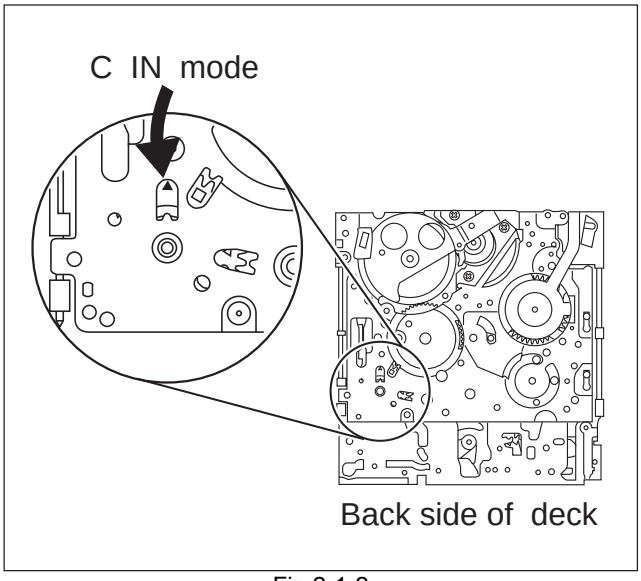


Fig.2-1-2

2.1.3.2 Explanation of mechanism mode

The mechanism mode of this model is classified into five modes as shown in Fig. 2-1-9. Each mechanism mode can be distinguished from others by the relative position of "△", "○", "⬭", "□" marks on the sub cam gear to the inner or outer protrusion on the main deck.

Refer to Fig. 2-1-3 to 2-1-8 below.

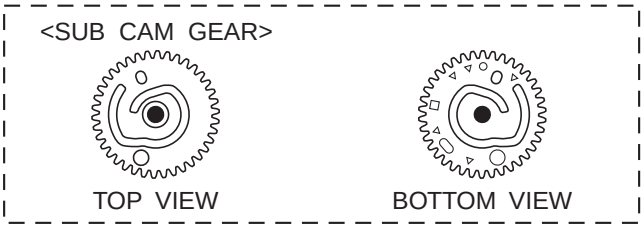


Fig.2-1-3

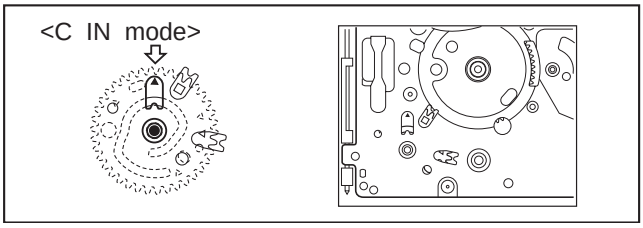


Fig.2-1-4

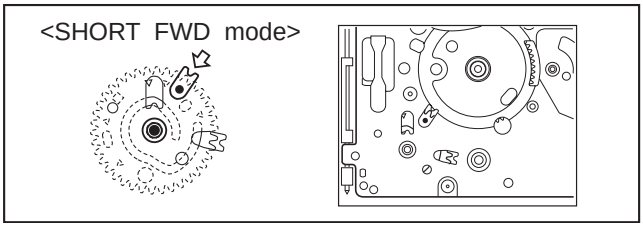


Fig.2-1-5

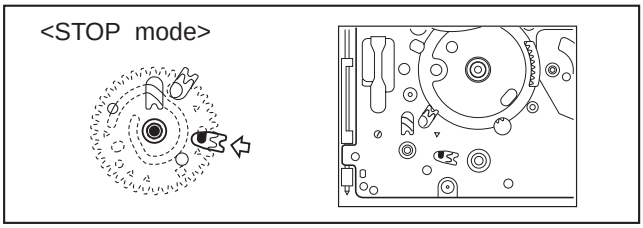


Fig.2-1-6

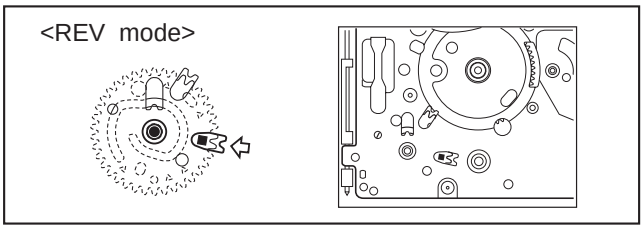


Fig.2-1-7

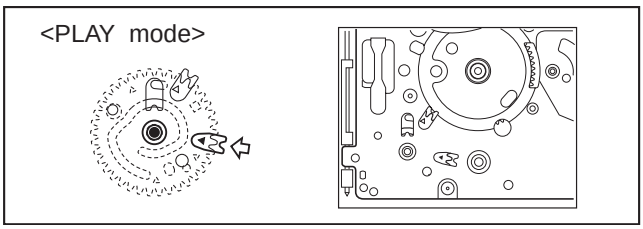


Fig.2-1-8

2.1.3.3 Mechanism timing chart

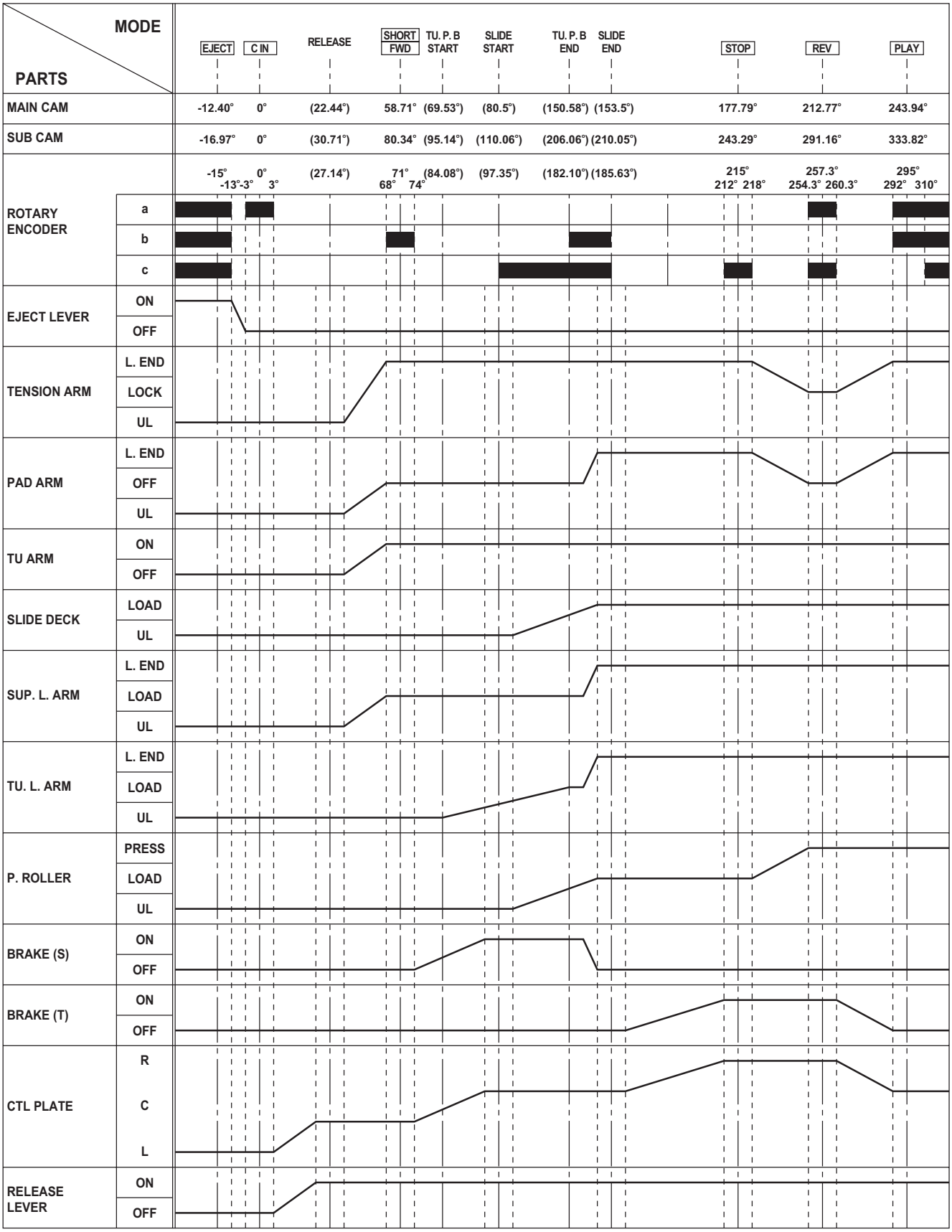


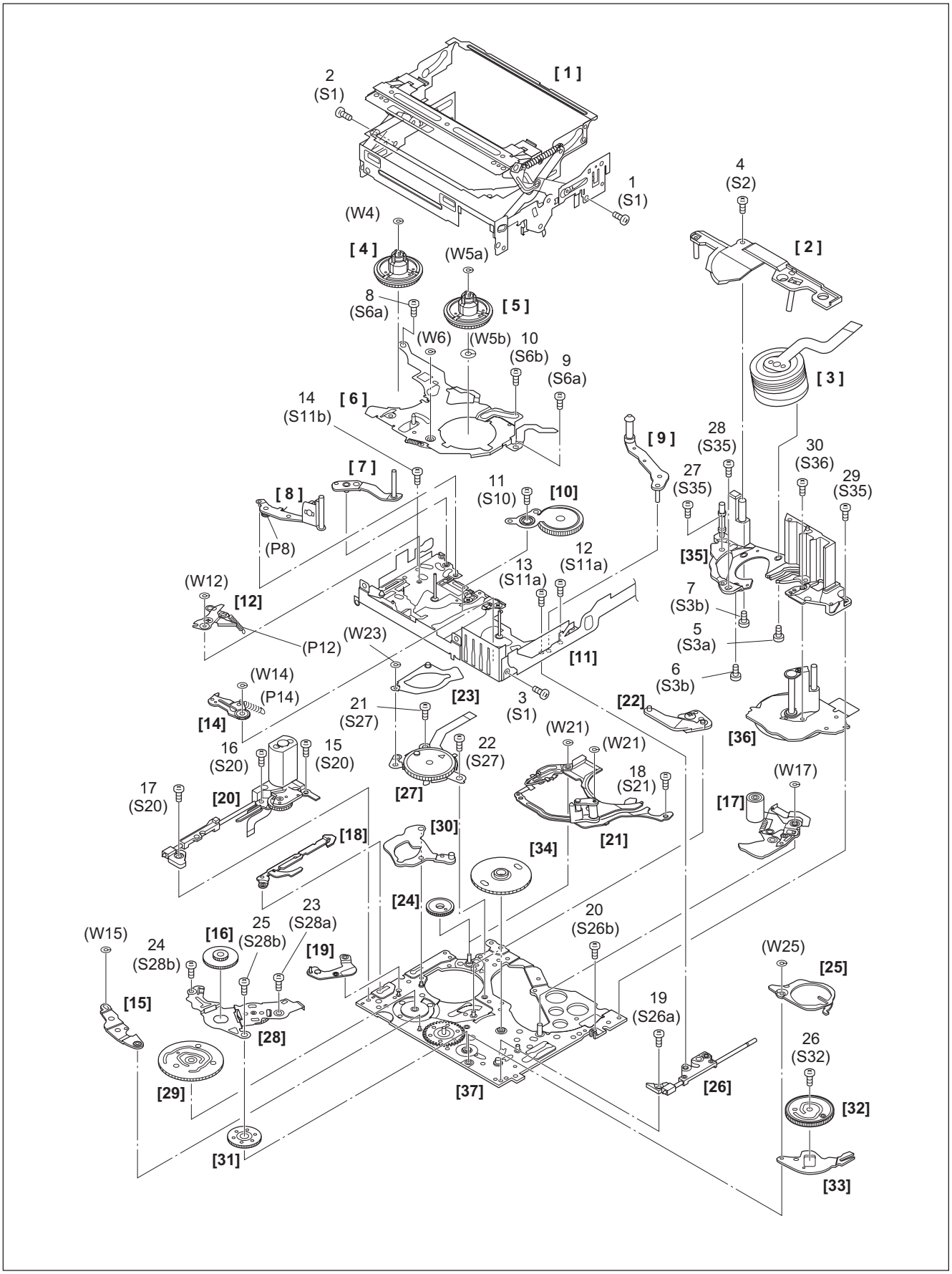
Fig.2-1-9

2.1.4 DISASSEMBLY PROCEDURE TABLE

MARK: # After assembly, perform adjustments.

NO.	PART NAME		FIG.	POINT	NOTE	REMARKS
[1]	CASSETTE HOUSING ASSY	T	Fig.2-1-14	3(S1),(L1a)-(L1e)	**NOTE 1 a,b,c,d**	ADJUSTMENT
[2]	UPPER BASE ASSY	T	Fig.2-1-15	(S2),(L2a),(L2b)	**NOTE 2**	
[3]	DRUM ASSY	T		(S3a),2(S3b)	**NOTE 3 a,b**	ADJUSTMENT
[4]	REEL DISK ASSY(SUP)	T	Fig.2-1-16	(W4)	**NOTE 4**	
[5]	REEL DISK ASSY(TU)	T		(W5a),(W5b)	**NOTE 5 a,b**	
[6]	REEL COVER ASSY	T		(W6),2(S6a),(S6b)	**NOTE 6**	
[7]	TENSION ARM ASSY	T	Fig.2-1-17	(L7)	**NOTE 7**	ADJUSTMENT / #
[8]	SLANT POLE ARM ASSY	T		(P8)	**NOTE 8**	ADJUSTMENT
[9]	TU ARM ASSY	T		(L9)	**NOTE 9**	ADJUSTMENT
[10]	SWING ARM ASSY	T		(S10)	**NOTE 10**	ADJUSTMENT
[11]	SLIDE DECK ASSY	T	Fig.2-1-18	2(S11a),(S11b),2(L11a), 2(L11b),(L11c)	**NOTE 11a,b**	ADJUSTMENT / #
[12]	PAD ARM ASSY	T	Fig.2-1-19	(P12),(L12),(W12)	**NOTE 12**	ADJUSTMENT / #
[13]	-	-		-	-	
[14]	TU BRAKE ASSY	T		(P14),(L14),(W14)	**NOTE 14**	ADJUSTMENT
[15]	TENSION CTL LEVER ASSY	T	Fig.2-1-20	(W15)	**NOTE 15**	ADJUSTMENT
[16]	CENTER GEAR	T		-	**NOTE 16**	
[17]	PINCH ROLLER ARM F. ASSY	T		(W17)	**NOTE 17**	ADJUSTMENT
[18]	TENSION CTL PLATE ASSY	T		-	**NOTE 18**	ADJUSTMENT
[19]	BRAKE CTL LEVER ASSY	T		-	**NOTE 19**	ADJUSTMENT
[20]	MOTOR BRACKET ASSY	T	Fig.2-1-21	3(S20),(L20a),2(L20b)	**NOTE 20**	ADJUSTMENT
[21]	GUIDE RAIL ASSY	T		2(W21),(S21),2(L21a),(L21b)	**NOTE 21**	ADJUSTMENT
[22]	SLIDE LEVER 2 ASSY	T		-	**NOTE 22**	ADJUSTMENT / #
[23]	LOADING PLATE ASSY	T		(W23)	**NOTE 23**	ADJUSTMENT
[24]	MODE GEAR	T		-	**NOTE 24**	
[25]	EJECT LEVER	T		(W25)	**NOTE 25**	ADJUSTMENT
[26]	BASE R ASSY	T	Fig.2-1-22	(S26a),(S26b),2(L26)	**NOTE 26**	ADJUSTMENT
[27]	ROTARY ENCODER	T		2(S27)	**NOTE 27**	PHASE ADJUSTMENT
[28]	GEAR COVER ASSY	T		(S28a),2(S28b)	-	
[29]	MAIN CAM ASSY	T		-	**NOTE 29**	PHASE ADJUSTMENT
[30]	SLIDE ARM ASSY	T	Fig.2-1-23	-	**NOTE 30**	ADJUSTMENT
[31]	CONNECT GEAR 2	T		-	**NOTE 31**	
[32]	SUB CAM ASSY	T		(S32)	**NOTE 32**	PHASE ADJUSTMENT
[33]	CONTROL ARM ASSY	T		-	**NOTE 33**	ADJUSTMENT
[34]	REEL GEAR 1	T		-	**NOTE 34**	
[35] / [36]	DRUM BASE ASSY/ CAPSTAN MOTOR	T	Fig.2-1-24	3(S35)	**NOTE 35a,b**	ADJUSTMENT
[36]	CAPSTAN MOTOR	T		(S36)	**NOTE 36**	ADJUSTMENT
[37]	MAIN DECK ASSY	T		-	-	

Fig.2-1-10


2
(S1)
[1]
1
(S1)
4
(S2)
(W4)
[4]
(W5a)
[2]
8
(S6a)
[5]
(W6)
(W5b)
10
(S6b)
9
(S6a)
[3]
14
(S11b)
[6]
[9]
28
(S35)
30
(S36)
[7]
27
(S35)
29
(S35)
[8]
11
(S10)
[10]
(P8)
12
(S11a)
[35]
(W12)
13
(S11a)
7
(S3b)
[12]
5
(S3a)
(P12)
(W23)
[11]
6
(S3b)
(W14)
[23]
3
(S1)
[22]
(P14)
21
(S27)
[14]
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16
(S20)
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[34]
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20
(S26b)
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(S28b)
[16]
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24
(S28b)
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[15]
19
(S26a)
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(S32)
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Fig.2-1-11

< TOP VIEW >

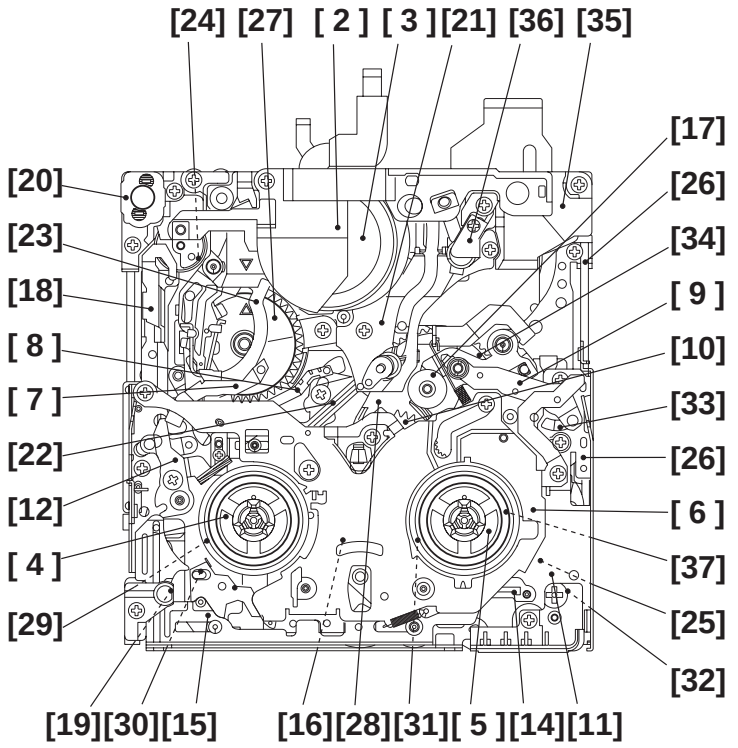


Fig.2-1-12

< BOTTOM VIEW >

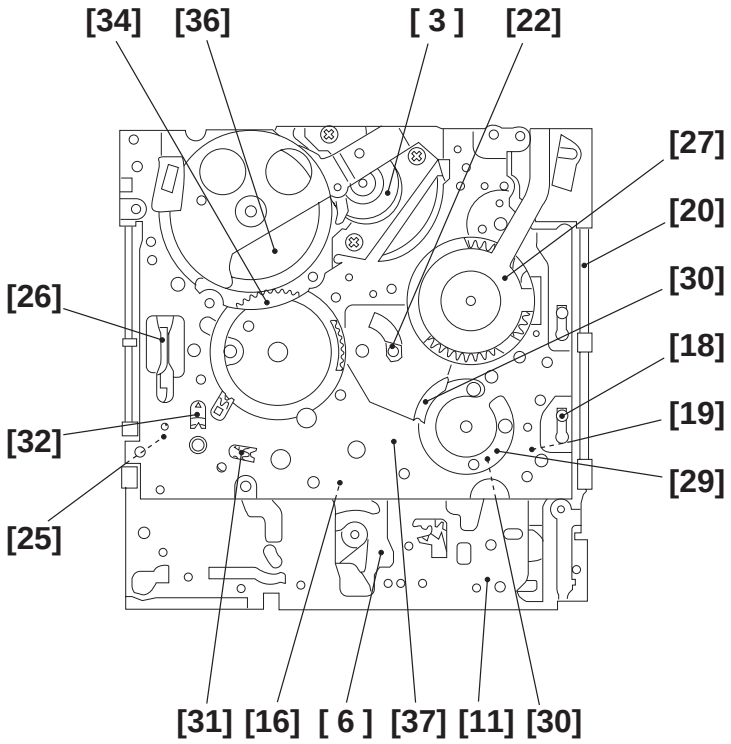


Fig.2-1-13

2.1.5 DISASSEMBLY/ASSEMBLY

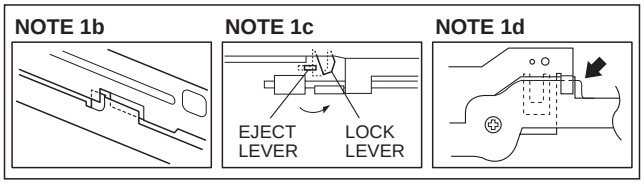
2.1.5.1 [1] CASSETTE HOUSING ASSY

NOTE 1a:
Be careful not to damage any of the parts during work.

NOTE 1b:
Special care is required in mounting.

NOTE 1c:
When mounting, the CASSETTE HOUSING ASSY should be attached in the Eject status. Pay heed to the positions of the LOCK LEVER and EJECT LEVER during mounting.

NOTE 1d:
When mounting, be sure to locate the FPC in the gap.



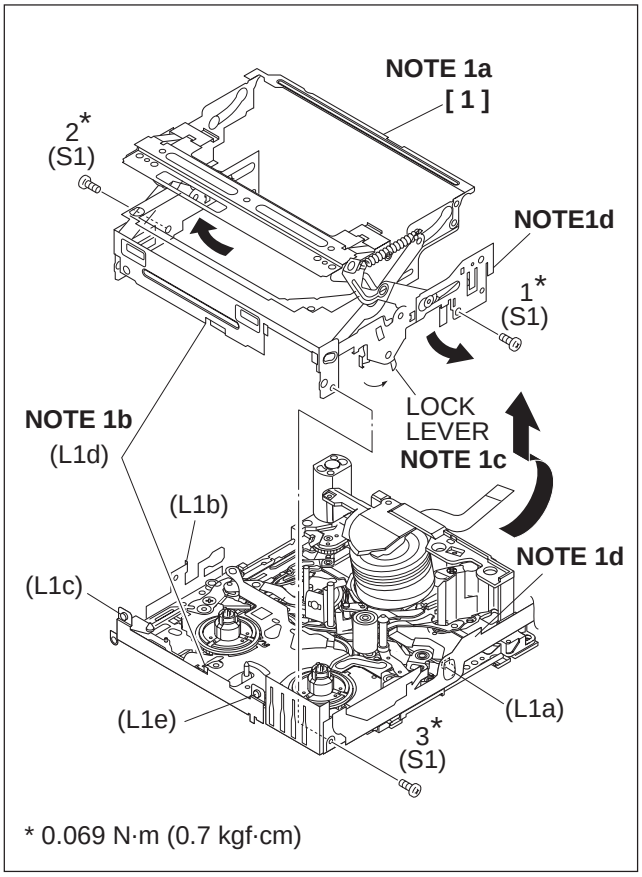


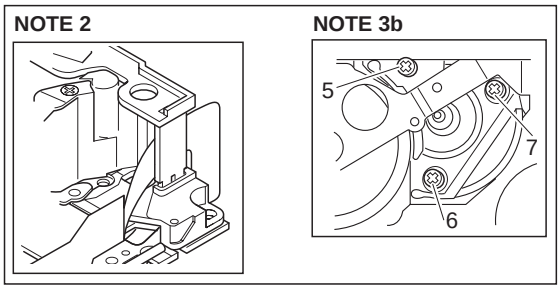
Fig.2-1-14

2.1.5.2 [2] UPPER BASE ASSY
[3] DRUM ASSY

NOTE 2:
When mounting, be sure to insert the FPC reinforcing sheet.

NOTE 3a:
Be mindful of scratches or damage during work.

NOTE 3b:
Be careful not to attach screws incorrectly.



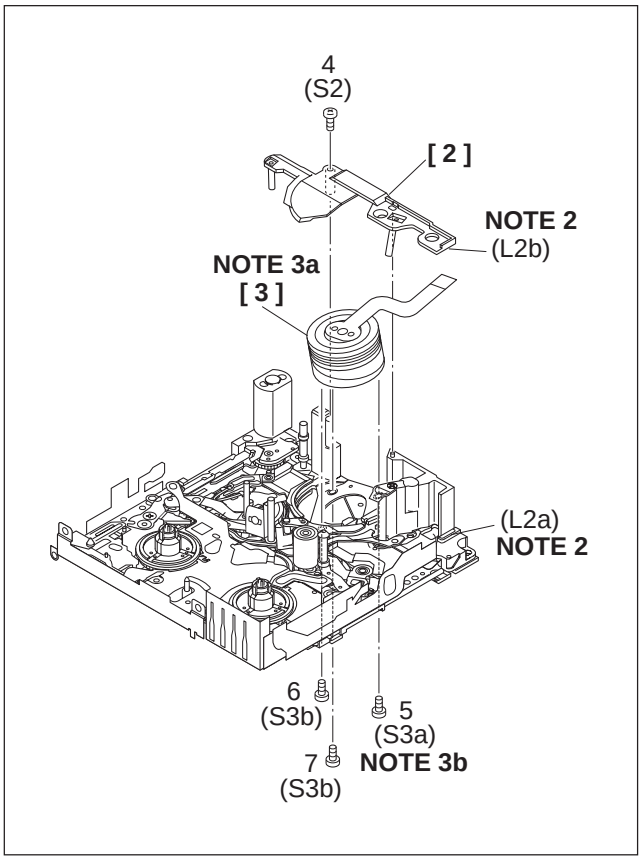


Fig.2-1-15

2.1.5.3 [4] REEL DISK ASSY(SUP)
[5] REEL DISK ASSY(TU)
[6] REEL COVER ASSY

NOTE 4:

Be careful not to attach the REEL DISK wrongly. The Supply side can be identified by the white color at the center.

NOTE 5a:

Be careful not to attach the REEL DISK wrongly. The Take-up side can be identified by the black color at the center.

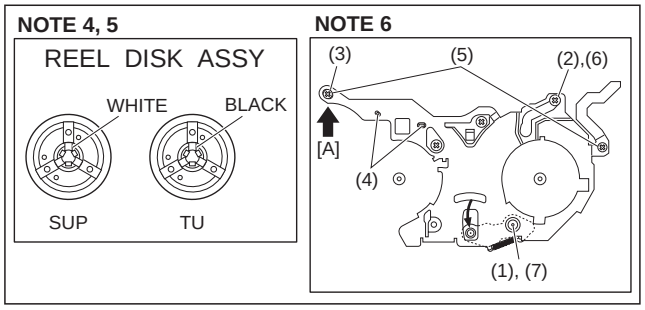
NOTE 5b

The washer is inserted under the REEL DISK.
Be carefull not to lose the washer.
Two washers are inserted under the REEL DISK in some products manufactured earlier, but one washer is inserted in the products manufactured recently and in the future.
See the parts list, and use the parts written in the parts list.

NOTE 6:

Perform the following steps for mounting.

(1) Align the hole with the pin.
(2) Attach the **[17]** PINCH ROLLER ARM FINAL ASSY by aligning the positions.
(3) Attach the SLIDE DECK ASSY (POINT[A]) by aligning the positions.
(4) Check that the parts below them are located in the correct positions.
(5) Tighten the 2 screws.
(6) Tighten the screw.
(7) Attach the 1 SLIT WASHER parts.



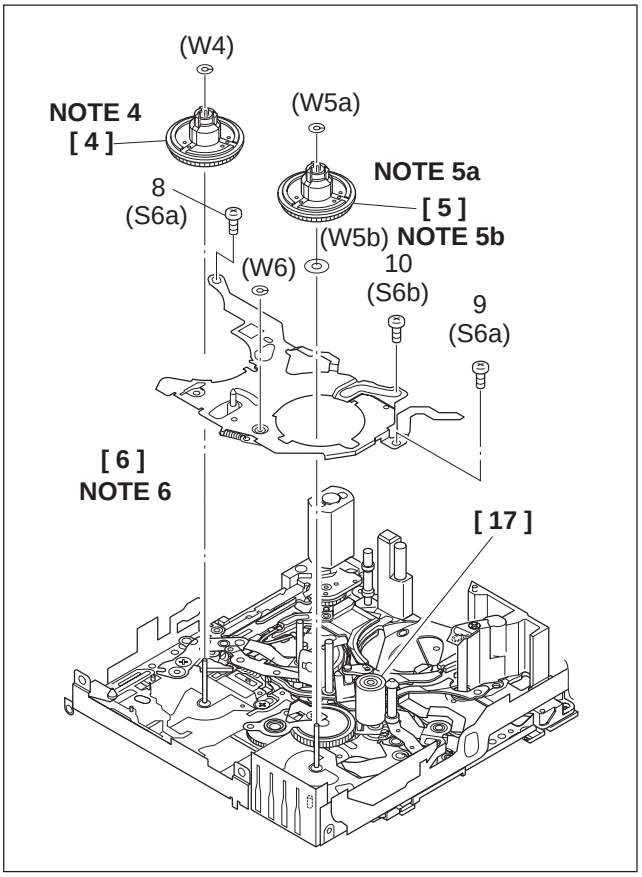


Fig.2-1-16

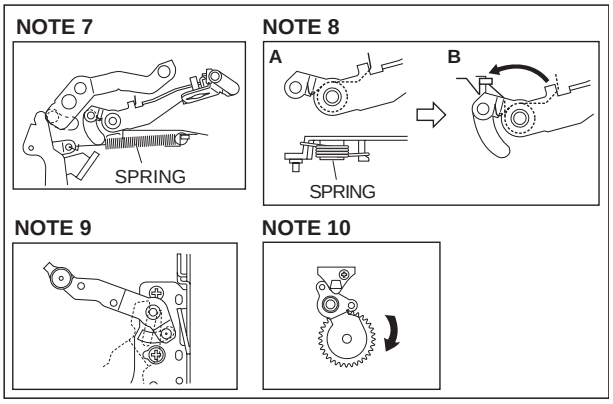
2.1.5.4 [7] TENSION ARM ASSY
[8] SLANT POLE ARM ASSY
[9] TU ARM ASSY
[10] SWING ARM ASSY

NOTE 7:
When detaching, remove the spring of the **[12]** PAD ARM ASSY in advance.
Pay attention to the attachment position.

NOTE 8:
When mounting the SLANT POLE ARM ASSY, hook the spring onto the lug as in diagram A, and fit the combination onto the SLIDE DECK ASSY. After fitting, hook the spring onto the lug of the SLIDE DECK ASSY as in diagram B.
Be careful not to lose the spring.

NOTE 9:
Pay attention to the attachment position.

NOTE 10:
When detaching, remove the screw then remove the SWING ARM ASSY by pulling it up and turning it.



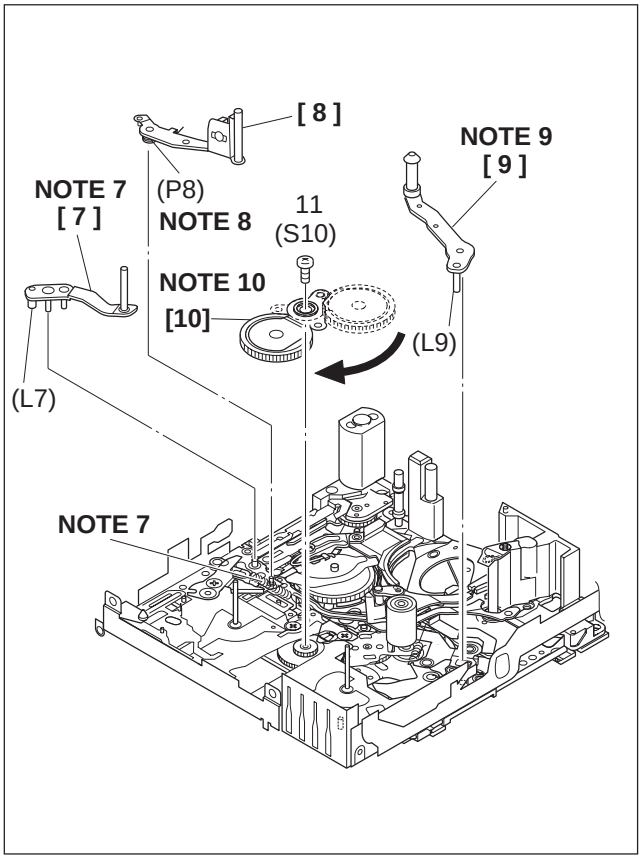


Fig.2-1-17

2.1.5.5 [11] SLIDE DECK ASSY

NOTE 11a:

Each of the parts on the SLIDE DECK ASSY can be replaced separately.

When detaching the assembly, if there is no need to replace any of its parts, remove the SLIDE DECK ASSY as it is.

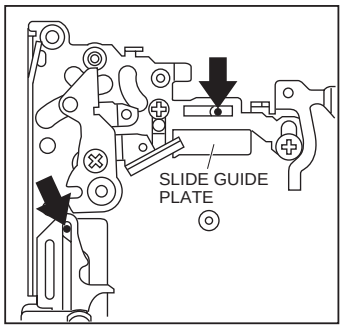
NOTE 11b:

When mounting, pay attention to the positions of the **[22]** SLIDE LEVER 2 ASSY studs and the **[19]** BRAKE CTL LEVER ASSY.

When mounting, position the CONTROL PLATE on the left side.

Pay attention to the position of the SLIDE GUIDE PLATE during mounting.

NOTE 11b



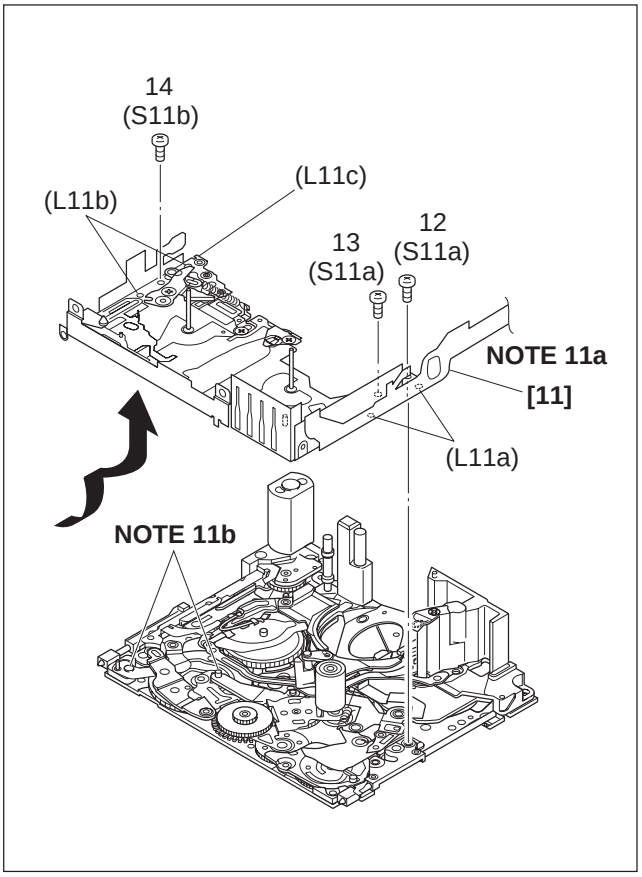


Fig.2-1-18

2.1.5.6 [12] PAD ARM ASSY
[13] -
[14] TU BRAKE ASSY

NOTE 12:

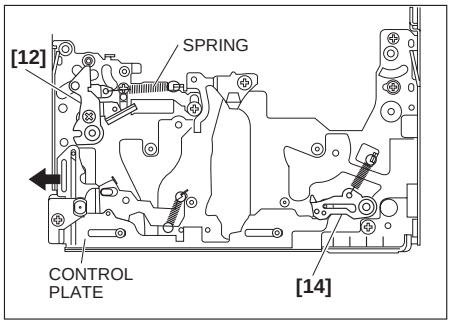
The spring may have already been disengaged when the **[8]** SLANT POLE ARM ASSY was removed.

NOTES 14:

When mounting, pay attention to the correct positioning.

Mount the CONTROL PLATE by moving it fully toward the left side.

NOTE 12,14



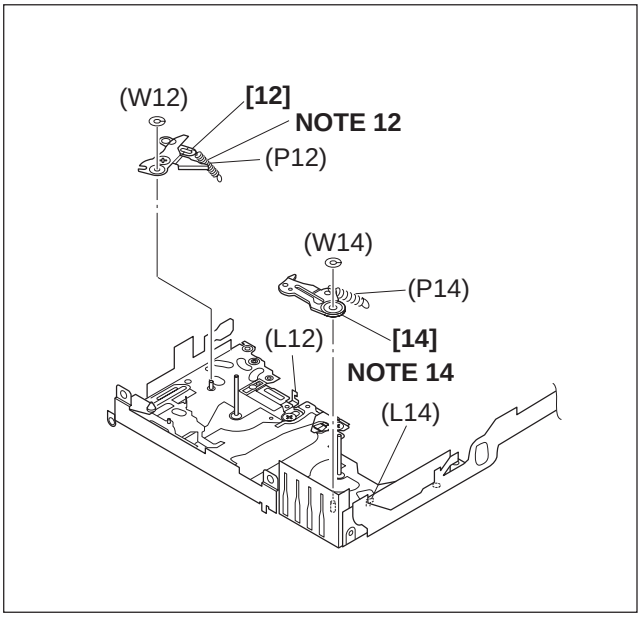


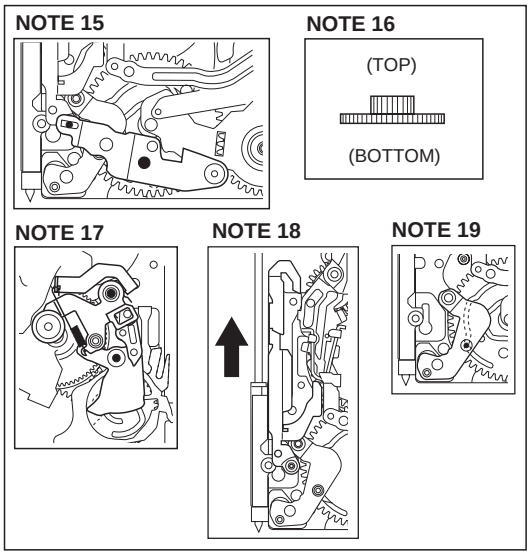
Fig.2-1-19

2.1.5.7 [15] TENSION CTL LEVER ASSY
[16] CENTER GEAR
[17] PINCH ROLLER ARM FINAL ASSY
[18] TENSION CTL PLATE ASSY
[19] BRAKE CTL LEVER ASSY

NOTES 15/16:
When mounting, pay attention to the correct positioning.

NOTE 17:
Take care against grease attachment during work.

NOTES 18/19:
When mounting, pay attention to the correct positioning.



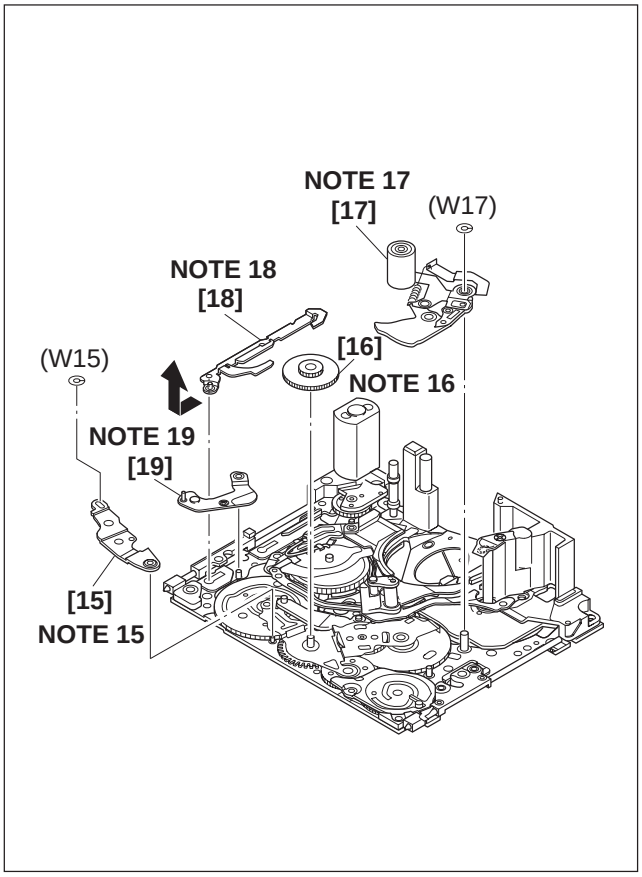


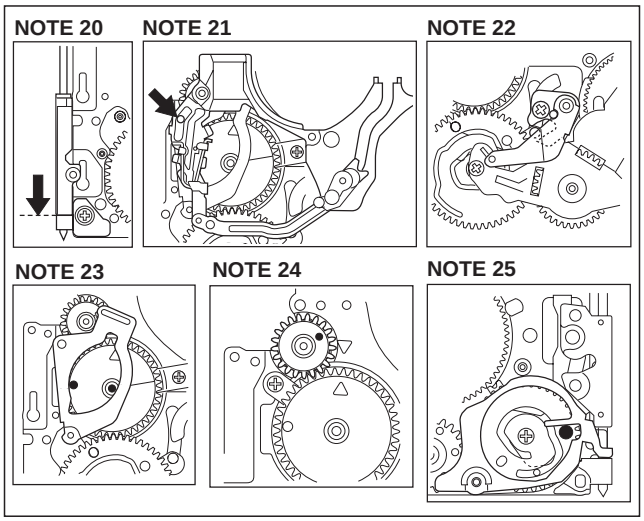
Fig.2-1-20

2.1.5.8 [20] MOTOR BRACKET ASSY
[21] GUIDE RAIL ASSY
[22] SLIDE LEVER 2 ASSY
[23] LOADING PLATE ASSY
[24] MODE GEAR
[25] EJECT LEVER

NOTE 20:
When mounting, pay attention to the positioning of the sliding parts.

NOTE 21:
When mounting, take care that no part is allowed to float or rattle.

NOTES 22/23/24/25:
When mounting, pay attention to the correct positioning.



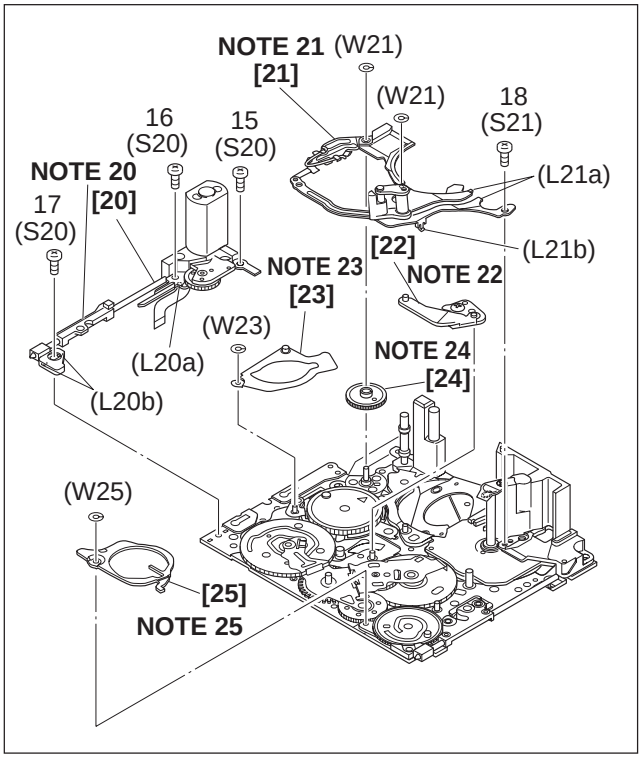


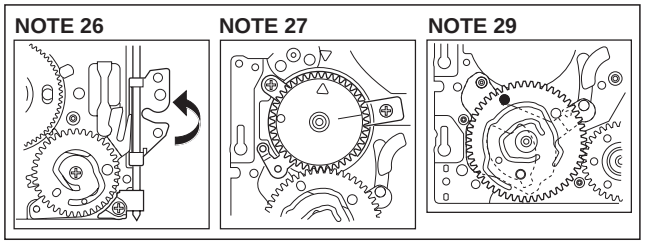
Fig.2-1-21

2.1.5.9 [26] BASE R ASSY
[27] ROTARY ENCODER
[28] GEAR COVER ASSY
[29] MAIN CAM ASSY

NOTE 26:
When mounting, fold the sliding part to the inner side.

NOTE 27:
When mounting, pay attention to the correct positioning and the FPC layout.

NOTE 29:
When mounting, pay attention to the correct positioning.



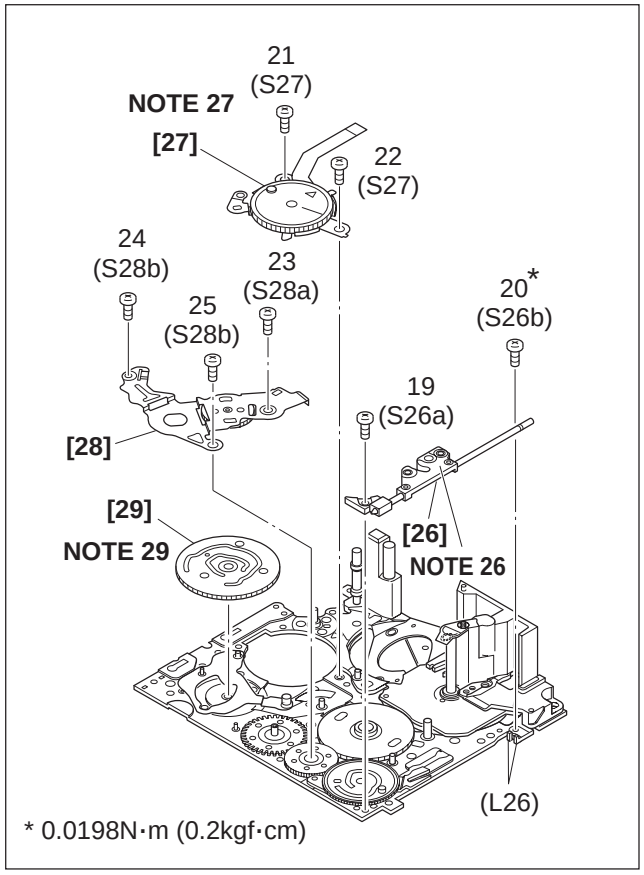


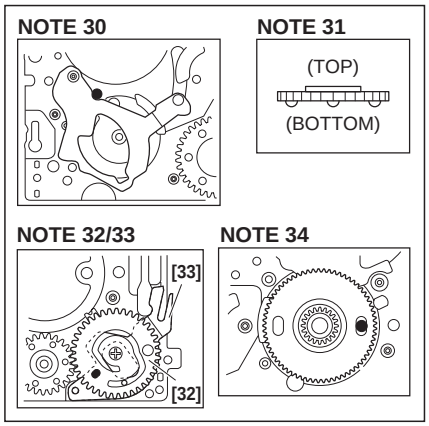
Fig.2-1-22

2.1.5.10 [30] SLIDE ARM ASSY
[31] CONNECT GEAR 2
[32] SUB CAM ASSY
[33] CONTROL ARM ASSY
[34] REEL GEAR 1

NOTE 30:
When mounting, pay attention to the correct positioning.

NOTE 31:
When mounting, pay attention to the position of the front and back.

NOTES 32/33/34:
When mounting, pay attention to the correct positioning.



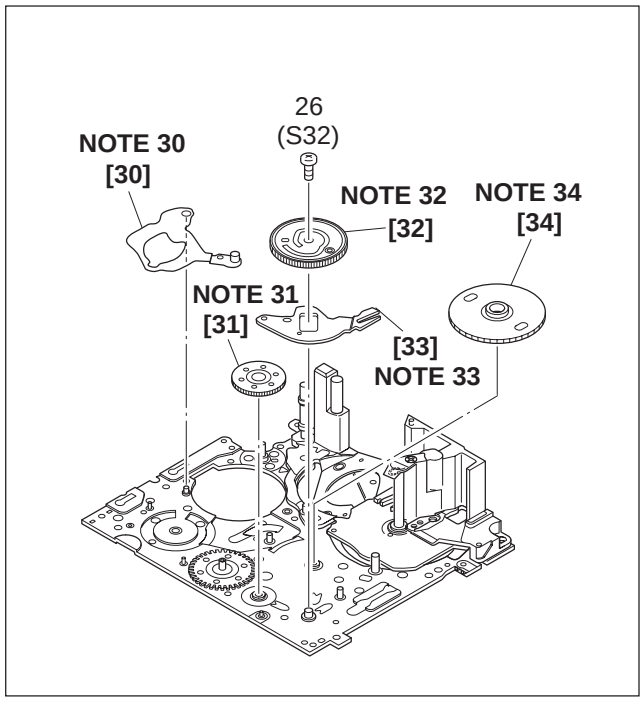


Fig.2-1-23

2.1.5.11 [35] DRUM BASE ASSY
[36] CAPSTAN MOTOR
[37] MAIN DECK ASSY

NOTES 35a/36:

Since [36]CAPSTAN MOTOR is attached to [35]DRUM BASE ASSY, remove [36]CAPSTAN MOTOR together with [35]DRUM BASE ASSY when removing [36]CAPSTAN MOTOR.

[36]CAPSTAN MOTOR should not be separated from [35]DRUM BASE ASSY except when replacing them.

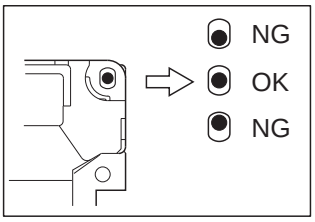
NOTE 35b:

It is very important to attach [35]DRUM BASE ASSY to the proper position.

Especially, improper engagement of [36]CAPSTAN MOTOR with [34]REEL GEAR 1 causes operational defection or abnormal sound. Therefore, confirm the attachment position before disassembly procedure.

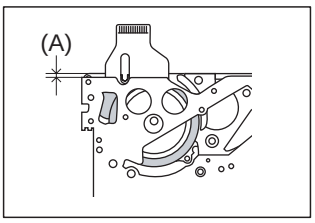
See the following figure as for the proper attachment position.

NOTE 35b



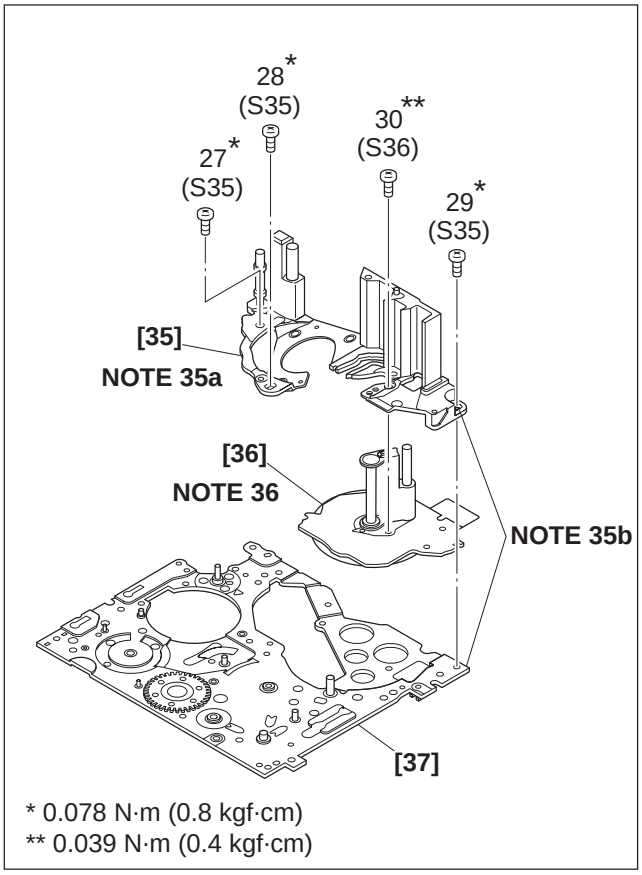
When [35]DRUM BASE ASSY is properly attached, the screw hole tends to be located at the center of the oval.

When the screw hole is located far from the center of the oval, operational defection or abnormal sound may occur.



Before removing [35]DRUM BASE ASSY, confirm the position of [35]DRUM BASE ASSY by seeing the length (A), as shown in the left figure.

When reattaching [35]DRUM BASE ASSY, confirm the position to reattach [35]DRUM BASE ASSY by seeing the length (A). Be sure to reattach [35]DRUM BASE ASSY to the same position as it has been before the removing procedure.



* 0.078 N·m (0.8 kgf·cm)
** 0.039 N·m (0.4 kgf·cm)

Fig.2-1-24

2.1.6 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

[24]MODE GEAR

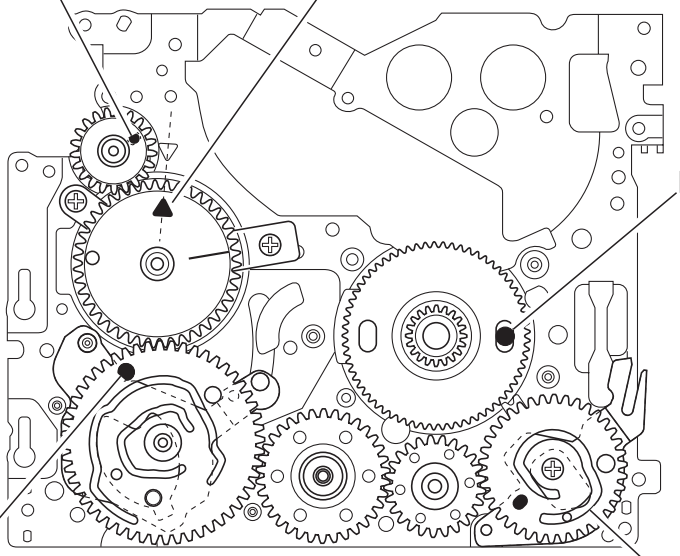
Align the MODE GEAR with the Main Deck Assembly hole.

Note:
The MODE GEAR may be displaced during the mechanism operation, however it can be checked from the rear and realigned during manual assembly.

[27]ROTARY ENCODER

Mount the ROTARY ENCODER by aligning its mark (△) and the mark (▽) of the Main Deck Assembly.

Note:
Be careful when handling the FPC during mounting.



[34]REEL GEAR 1

Align the REEL GEAR 1 with the Main Deck Assembly hole.

Note:
The REEL GEAR 1 may be displaced during mechanism operation, however this can be checked from the rear and realigned during manual assembly.

[29]MAIN CAM ASSY/[30]SLIDE ARM ASSY

When mounting the SLIDE ARM ASSY align it with the Main Deck Assembly and MAIN CAM ASSY holes.

Note:
During the mounting procedure, make sure that the[32] SUB CAM ASSY is in the correct mounting position.

[32]SUB CAM ASSY/[33] CONTROL ARM ASSY

Mount the SUB CAM ASSY hole to align with the CONTROL ARM ASSY and Main Deck Assembly holes and then tighten them all together with a screw.

Note:
When mounting it, make sure that the[29]MAIN CAM ASSY is in the correct mounting position.

Fig.2-1-25

2.1.7 MECHANISM ADJUSTMENTS

2.1.7.1 Adjustment of the slide guide plate

Use Fig. 2-1-26 as the reference unless otherwise specified.

(1) Set the PLAY mode. See Fig. 2-1-8.
(2) Loosen the screws (**A**, **B**).
(3) With the Main Deck and Slide Deck Assemblies pushed into the unit, tighten the screws (**A**, **B**) while applying pressure to the stud (shaft) on the Slide Guide plate.
The pressure applied should be enough to enable utilization of the rebounding force of the springs.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

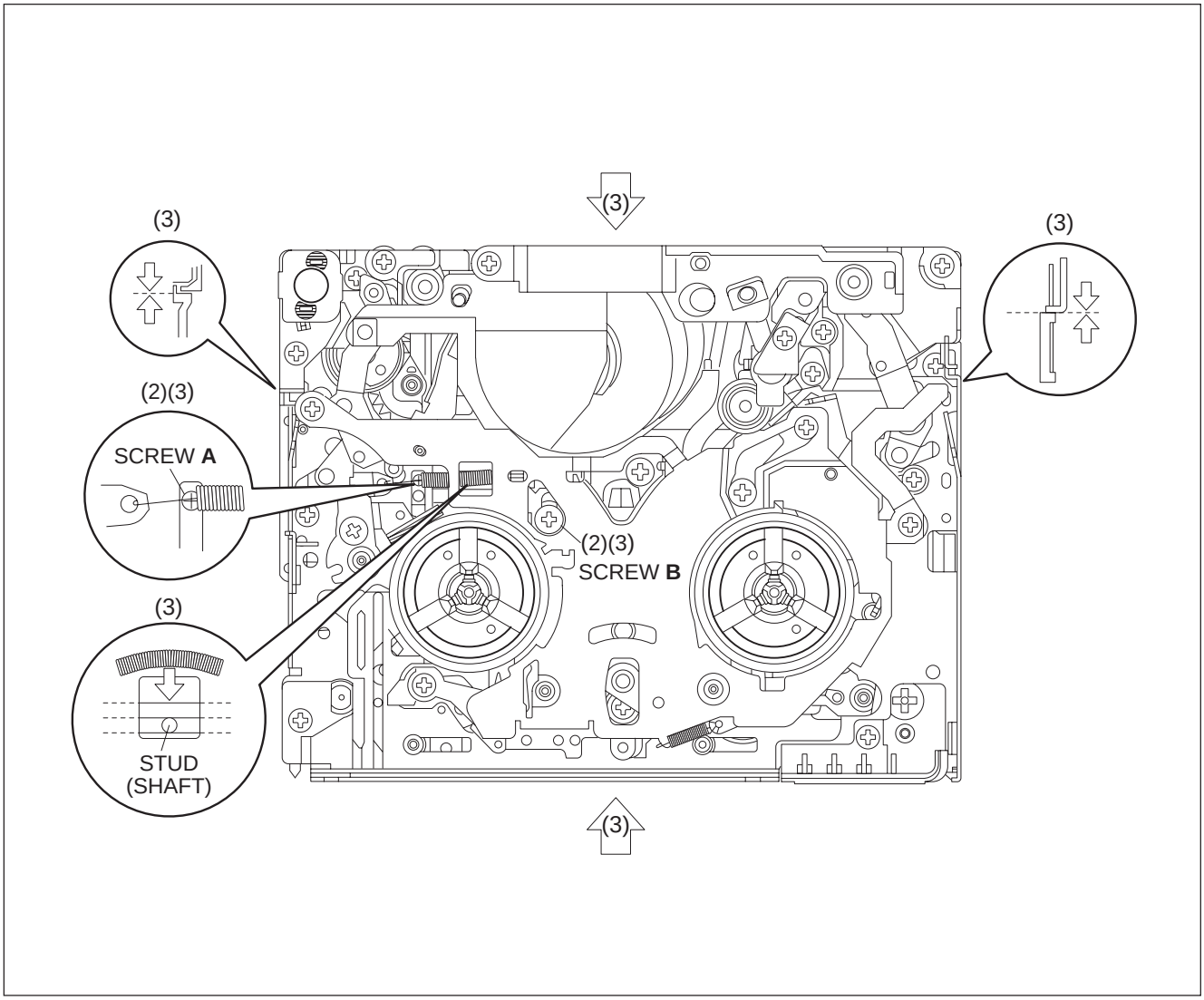


Fig.2-1-26

2.1.7.2 Adjustment of the Tension Arm and Pad Arm Assemblies

Use Fig. 2-1-27 as the reference unless otherwise specified.

(1) Set the PLAY mode.
See Fig. 2-1-8.
(2) Loosen the screw **A**.
(3) With the take-up side at the bottom, align the extreme end of the Tension Arm Assembly with the crossed grooves on the screw **B** that retains the Loading Motor Assembly and then tighten the screw **A**.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that the Tension Arm Assembly is located within the normal range.

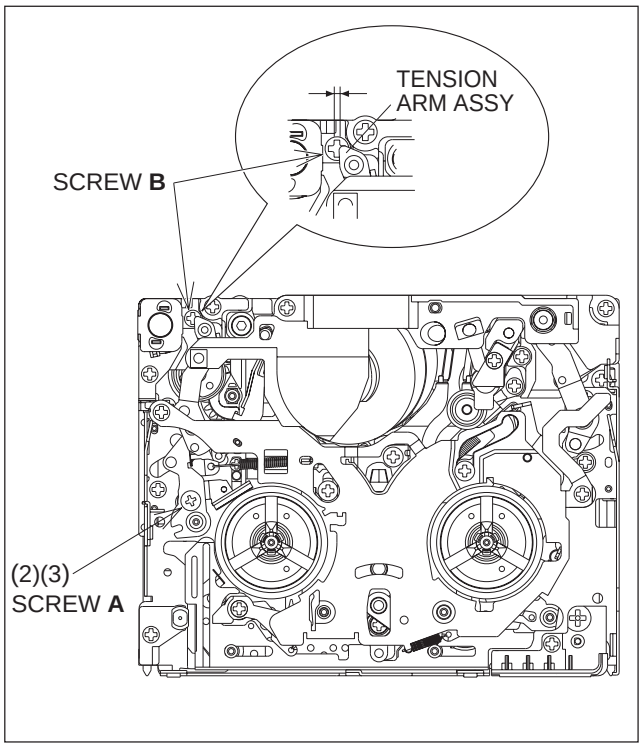


Fig.2-1-27

2.1.7.3 Adjustment of the Slide Lever 2

Use Fig. 2-1-28 as the reference unless otherwise specified.

(1) Set the C IN mode.
See Fig. 2-1-4.
(2) Loosen the screw **A**.
(3) Set the Main Deck and Slide Deck Assemblies apart so that they do not rattle, then tighten the screw **A** by screwing it fully toward the Drum Assembly.
The tightening torque should be 0.069 N•m (0.7 kgf•cm).
(4) Check the operation.
Repeat unloading and loading several times and make sure that these operations can be performed smoothly without producing rattles.

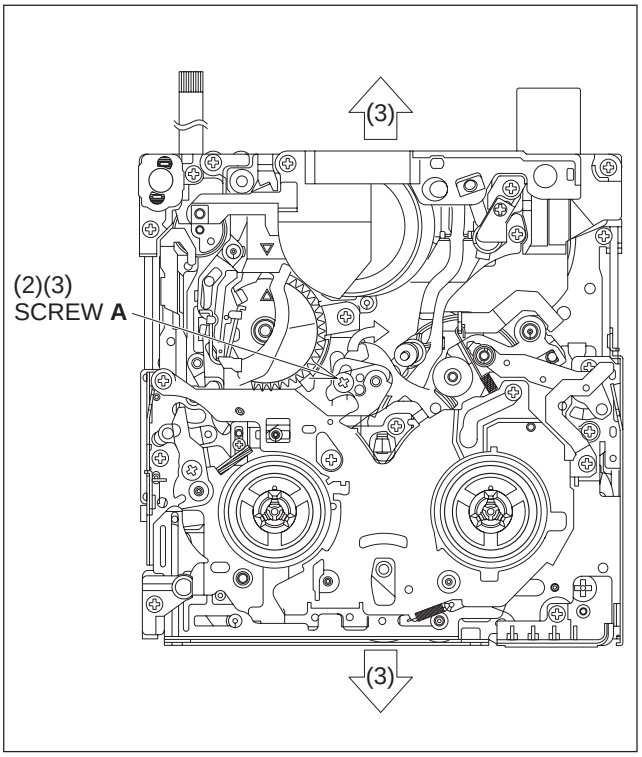


Fig.2-1-28

2.1.8 SERVICE NOTE

Use the following chart to manage mechanism parts that are removed for disassembling the mechanism.

Fig.2-1-14

[1] CASSETTE HOUSING ASSY

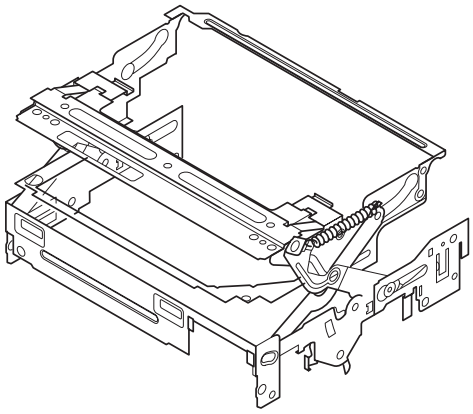


Fig.2-1-15

[2] UPPER BASE ASSY

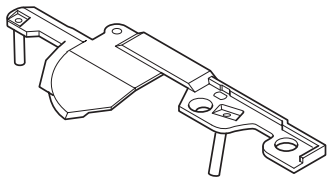


Fig.2-1-15

[3] DRUM ASSY

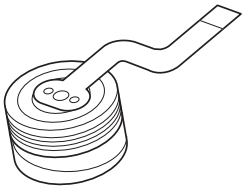
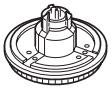
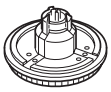


Fig.2-1-16

[4] REEL DISK ASSY(SUP)



[5] REEL DISK ASSY(TU)



[6] REEL COVER ASSY

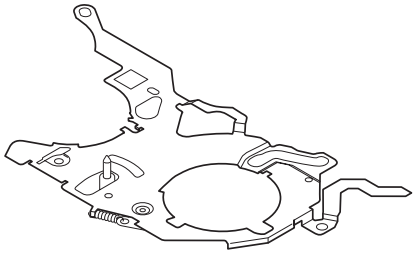
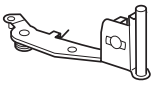


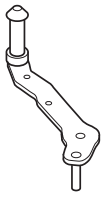
Fig.2-1-17

[7] TENSION ARM ASSY

[8] SLANT POLE ARM ASSY



[9] TU ARM ASSY



[10] SWING ARM ASSY

Fig.2-1-18

[11] SLIDE DECK ASSY

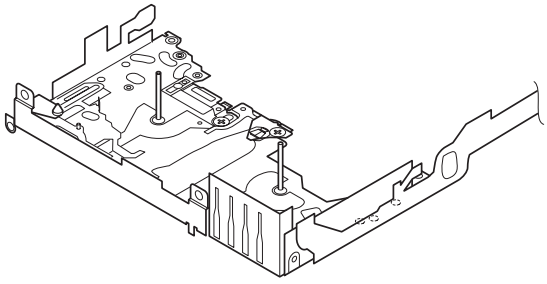


Fig.2-1-19

[12] PAD ARM ASSY

[13]

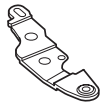
—

[14] TU BRAKE ASSY

Fig.2-1-29

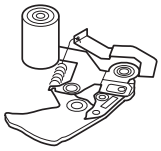
Fig.2-1-20

[15] TENSION CTL LEVER ASSY

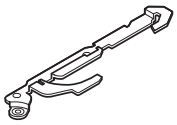


[16] CENTER GEAR

[17] PINCH ROLLER ARM F. ASSY



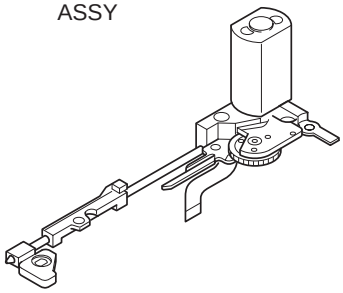
[18] TENSION CTL PLATE ASSY



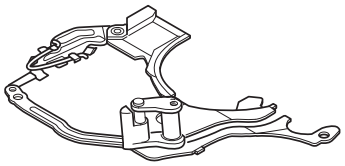
[19] BRAKE CTL LEVER ASSY

Fig.2-1-21

[20] MOTOR BRACKET ASSY



[21] GUIDE RAIL ASSY



[22] SLIDE LEVER 2 ASSY

[23] LOADING PLATE ASSY

[24] MODE GEAR

[25] EJECT LEVER

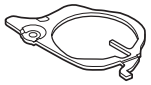
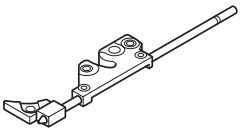
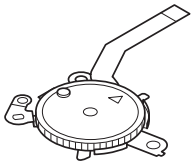


Fig.2-1-22

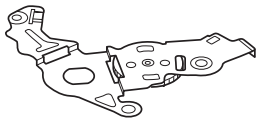
[26] BASE R ASSY



[27] ROTARY ENCODER



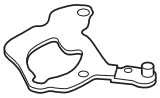
[28] GEAR COVER ASSY



[29] MAIN CAM ASSY

Fig.2-1-23

[30] SLIDE ARM ASSY



[31] CONNECT GEAR 2

[32] SUB CAM ASSY

[33] CONTROL ARM ASSY

[34] REEL GEAR 1

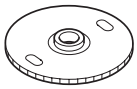
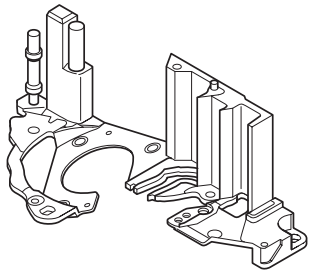
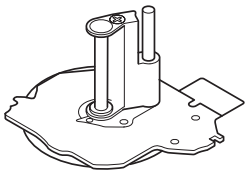


Fig.2-1-24

[35] DRUM BASE ASSY



[36] CAPSTAN MOTOR



[37] MAIN DECK ASSY

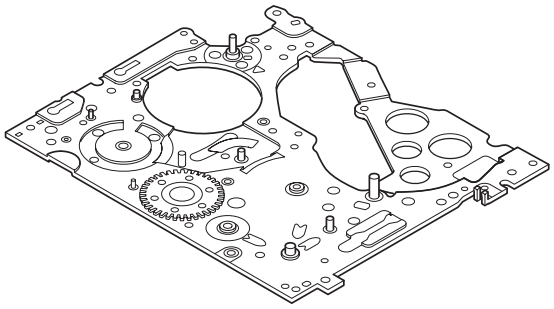


Fig.2-1-30

2.1.9 SERVICE NOTE

Use the following chart to manage screws.

Symbol No.	[1]			[2]	[3]			[6]			[10]	[11]			[20]			[21]	[22]	
Removing order of screw	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Place to stick screw																				
Reference drawing (Fig. No.2-1-**)	14				15				16		17		18			21			22	
Screw tightening torque	Ⅰ				Ⅱ															Ⅲ

Symbol No.	[27]			[28]			[32]	[35]			[36]
Removing order of screw	21	22	23	24	25	26	27	28	29	30	
Place to stick screw											
Reference drawing (Fig. No.2-1-**)	22					23	24				
Screw tightening torque	Ⅱ						Ⅳ			Ⅴ	

<NOTE>

·Pay careful attention to tightening torque for each screw.

Ⅰ : 0.069N·m(0.7kgf·cm)　　Ⅱ : 0.055N·m(0.56kgf·cm)　　Ⅲ : 0.0198N·m(0.2kgf·cm)

Ⅳ : 0.078N·m(0.8kgf·cm)　　Ⅴ : 0.039N·m(0.4kgf·cm)

Fig.2-1-31

2.1.10 REMARKS

2.1.10.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.1.10.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.1 DVC MECHANISM ASSEMBLY. Fig.2-1-32 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

specifies oil and grease to be used

Fig.2-1-32

2.2 VHS-C MECHANISM

2.2.1 Precautions

(1) When fastening parts, pay careful attention to the tightening torque of each screw. Unless otherwise specified, tighten a screw with the torque of 0.216 N•m (2.2 kgf•cm). Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.
(2) Be sure to disconnect the set from the power supply before fastening and soldering parts.
(3) When disconnecting/connecting wires, be careful not to get them and their connectors damaged.
(4) When replacing parts, be very careful neither to damage other parts nor to fit wrong parts by mistake.

Example

STEP/LOC. No.	PART NAME		FIG.	REMOVAL POINT	INSTALLATION ADJUSTMENT CONDITION NOTE
[1]	ROLLER BASE ASSEMBLY	T	M1	(S1)	–
[2]	TENSION ARM ASSEMBLY	T	M1	(P1), (W1a)	–
[3]	REEL DISC (SUP)	T	M1	(W1a), (W1b)	–
↑ *1	↑ *2	↑ *3	↑ *4	↑ *5	↑ *6

2.2.2 How to read the disassembly and assembly

*1 Order of steps in Procedure
When reassembling, perform the step(s) in the reverse order. These numbers are also used as the identification (location) No. of parts Figures.
*2 Part to Name be removed or installed.
*3 Location of part.

T = The Upper side
B = The Lower side

*4 Fig. No. showing Procedure or Part Location.
M = Mechanism
*5 Identification of part to be removed, unhooked, unlocked, released, unplugged, unclamped or unsoldered.

P = Spring
W = Washer
S = Screw
* = Unhook, unlock, release, unplug or unsolder.

Example

- Remove (W1)=Washer W1.
- Remove the solder at (SD1)=Point SD1.
- Disconnect A = Connector A.

*6 Adjustment information for installation.
(+) = Refer to Exploded Views for Lubrication information.

2.2.3 DISASSEMBLY/ASSEMBLY PROCEDRURE TABLE

This procedure starts with the condition that the cabinet parts and deck parts. Also, all the following procedures for adjustment and parts replacement should be performed in STOP mode. When reassembling, perform the step(s) in the reverse order.

STEP/LOC. No.	PART NAME		FIG.	REMOVAL POINT	INSTALLATION ADJUSTMENT CONDITION NOTE
[1]	ROLLER BASE ASSY	T	M1	(1)	–
[2]	TENSION ARM ASSY	T	M1	(P1), (W1a)	–
[3]	REEL DISC	T	M1	(W1a), (W1b)	–
[4]	SLANT ARM ASSY	T	M1	(W1a)	–
[5]	CANCEL LEVER ASSY	T	M2	(W2)	–
[6]	EJECT LEVER ASSY	T	M2	(W2)	–
[7]	CASSETTE GUIDE (LEFT)	T	M2	(2)	–
[8]	SUPPLY CLUTCH ASSY	T	M2	(W2)	–
[9]	WHEEL GEAR	T	M2	(W2)	See, Adjustment procedure for Section 2.2.5
[10]	ROTARY ENCODER	B	M3	4(S3a)	The function of this part varies according to the ASSY (VHS/SVHS) which this part is rporated in. (Refer to fig. 2-2-6)
[11]	TIMING BELT	B	M3	–	–
[12]	CENTER PULLEY UNIT	T/B	M3	2(S3a)	–
[13]	CASSETTE GUIDE (R) ASSY	T	M3	(S3b), (P3)	(Only use SVHS model)
[14]	TAKE UP GEAR	T	M3	(W3a)	–
[15]	BRAKE SUB GEAR	T	M3	(W3a)	–
[16]	PINCH ROLLER ARM ASSY	T	M3	(W3b)	–
[17]	TAKE UP GUIDE ARM ASSY	T	M3	(W3a)	–
[18]	LINK ARM ASSY	T	M4	(W4)	–
[19]	LED GUIDE	T	M4	(S4a)	–
[20]	A/C HEAD UNIT	T	M4	2(S4b)	–
[21]	SLANT POLE BASE ASSY	T	M5	(S5a)	–
[22]	CAPSTAN MOTOR	T	M5	3(S5a)	–
[23]	MOTOR BASE	T	M5	2(S5b), (S5c)	–
[24]	BRUSH	B	M6	(S6a)	–
[25]	DRUM FINAL ASSY	T/B	M6	2(S6b), 2(S6c) *CATCHER	–
[26]	GUIDE RAIL	T	M6	7(S6d), 8(S6d)	(Refer to part list.)
[27]	POLE BASE (S)ASSY	T	M6	–	–
[28]	POLE BASE (T)ASSY	T	M6	–	–
[29]	COVER PLATE	T	M7	–	–
[30]	DRIVE LEVER ASSY	T	M7	–	–
[31]	MOTOR BRACKET ASSY	T	M7	3(S7)	–
[32]	CONTROL CAM	T	M8	(W8a)	See, Adjustment procedure for Section 2.2.5
[33]	LINK LEVER	T	M8	_	See, Adjustment procedure for Section 2.2.5
[34]	MIDDLE GEAR	T	M8	–	–
[35]	LOADING GEAR(T) ASSY	T	M8	(W8b)	See, Adjustment procedure for Section 2.2.5
[36]	LOADING GEAR(S) ASSY	T	M8	(W8b)	–
[37]	LOADING RING ASSY	T	M8	4(S8)	See, Adjustment procedure for Section 2.2.5

Fig.2-2-1

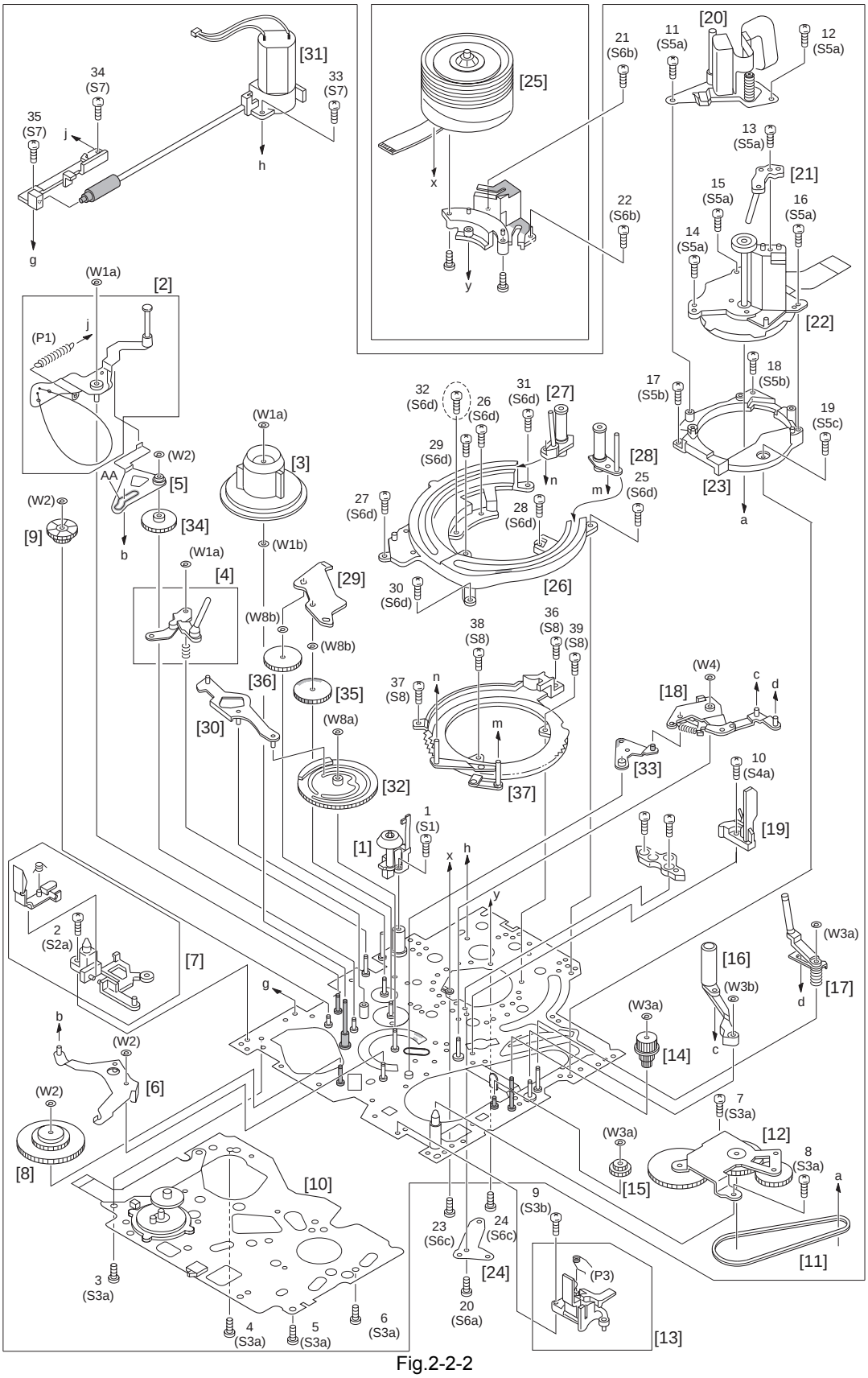

[31]
34 (S7)
33 (S7)
35 (S7)
j
h
g
[25]
x
y
21 (S6b)
22 (S6b)
[20]
11 (S5a)
12 (S5a)
13 (S5a)
[21]
15 (S5a)
16 (S5a)
14 (S5a)
[22]
(W1a)
[2]
(P1)
j
AA
(W2)
[5]
b
[34]
[9]
(W2)
(W1a)
[3]
(W1b)
[4]
[29]
(W8b)
(W8b)
[36]
[35]
[30]
(W8a)
[32]
32 (S6d)
26 (S6d)
31 (S6d)
[27]
29 (S6d)
n
[28]
m
25 (S6d)
27 (S6d)
28 (S6d)
[26]
30 (S6d)
17 (S5b)
18 (S5b)
19 (S5c)
[23]
a
38 (S8)
36 (S8)
39 (S8)
37 (S8)
n
m
[37]
(W4)
c
d
[18]
[33]
10 (S4a)
[19]
[1]
1 (S1)
x
h
y
2 (S2a)
[7]
g
b
(W2)
[6]
(W2)
[8]
[10]
3 (S3a)
4 (S3a)
5 (S3a)
6 (S3a)
23 (S6c)
24 (S6c)
9 (S3b)
[24]
20 (S6a)
(P3)
[13]
(W3a)
[16]
(W3b)
c
(W3a)
[14]
(W3a)
[17]
d
7 (S3a)
(W3a)
[15]
[12]
8 (S3a)
a
[11]

Fig.2-2-2

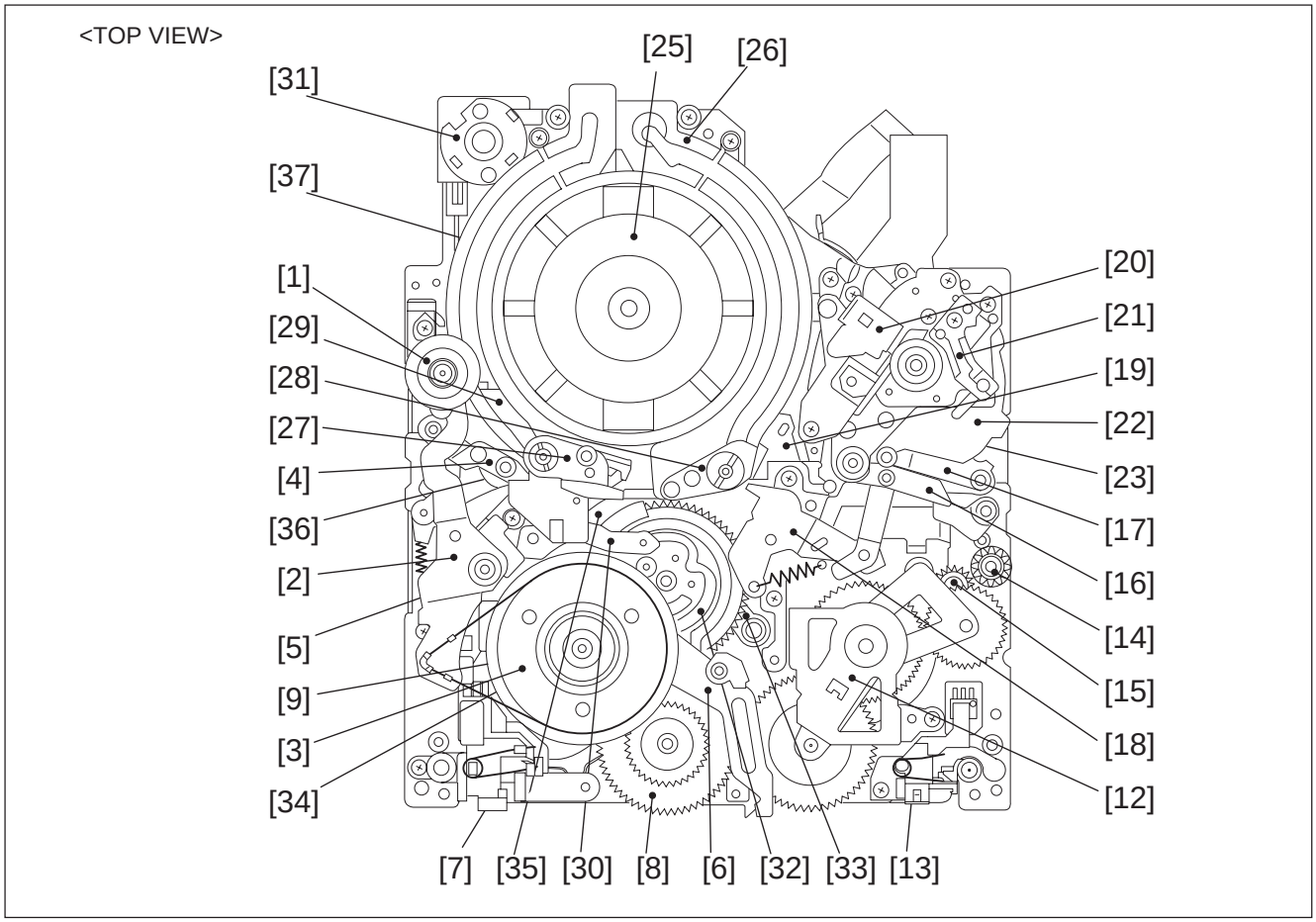


Fig.2-2-3

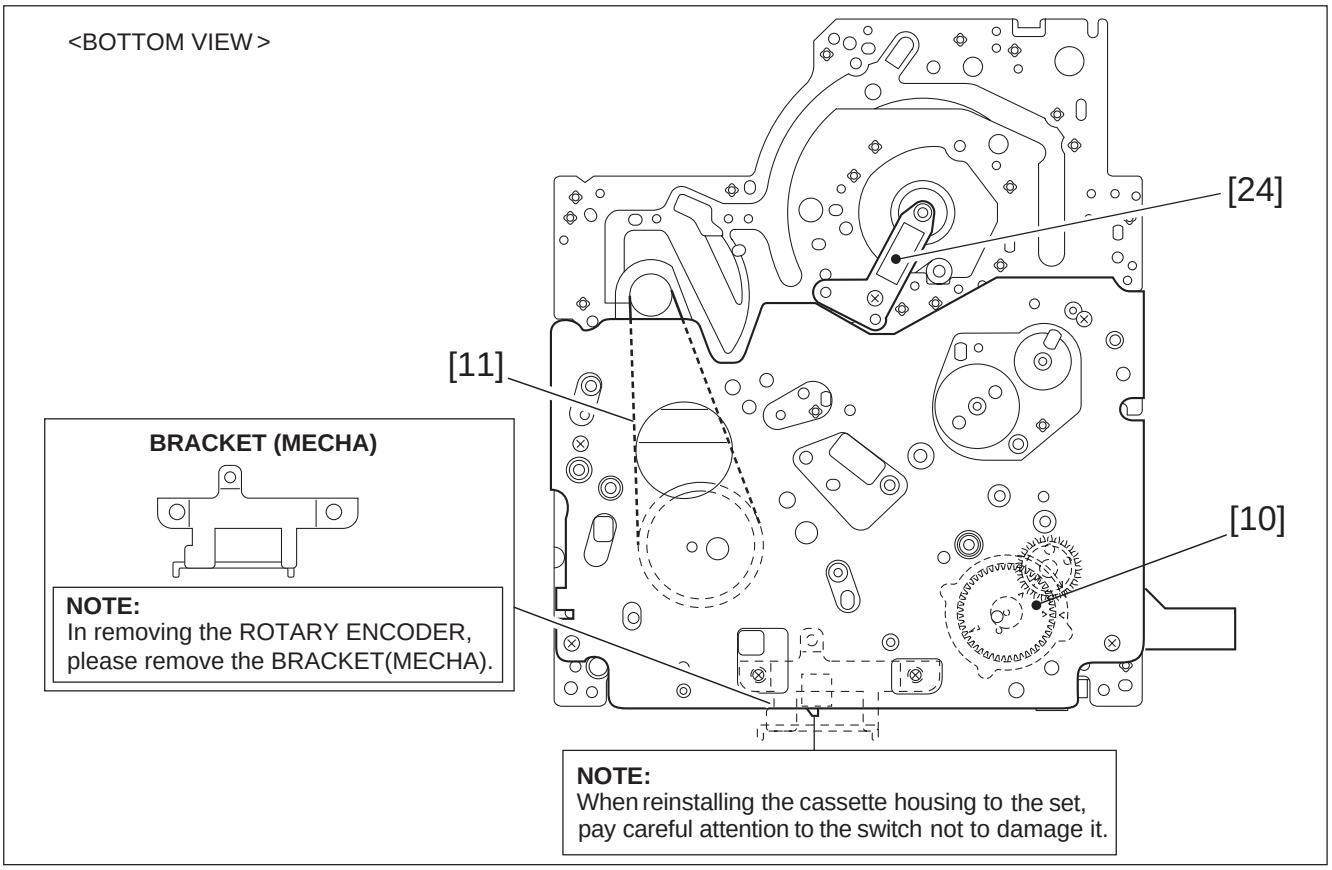

<BOTTOM VIEW>
[24]
[11]
[10]
BRACKET (MECHA)
NOTE:
In removing the ROTARY ENCODER, please remove the BRACKET(MECHA).
NOTE:
When reinstalling the cassette housing to the set, pay careful attention to the switch not to damage it.

Fig.2-2-4

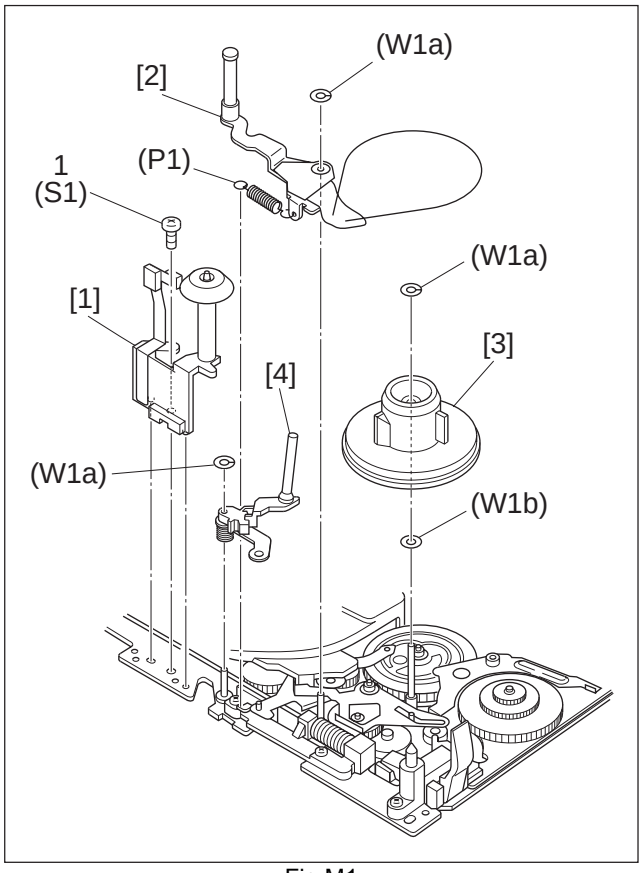


Fig.M1

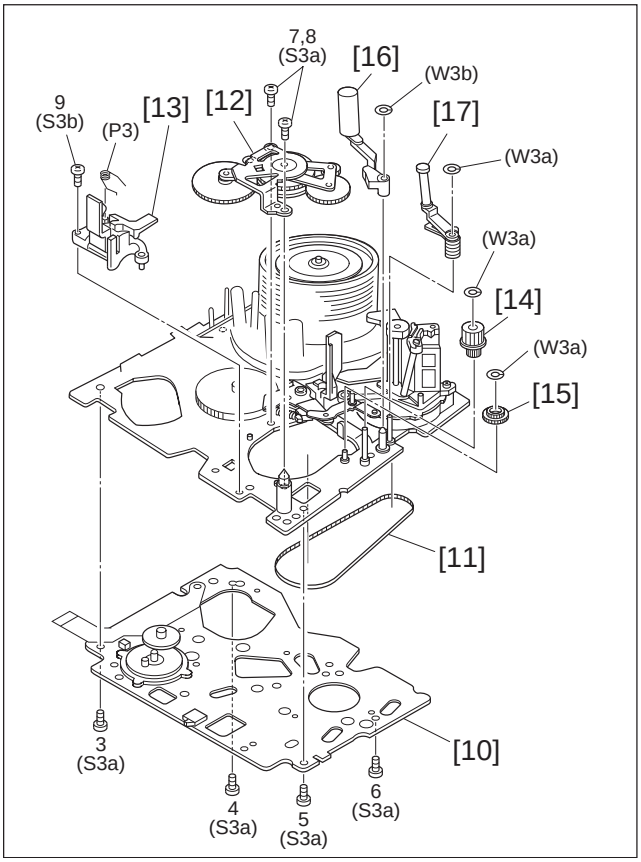


Fig.M3

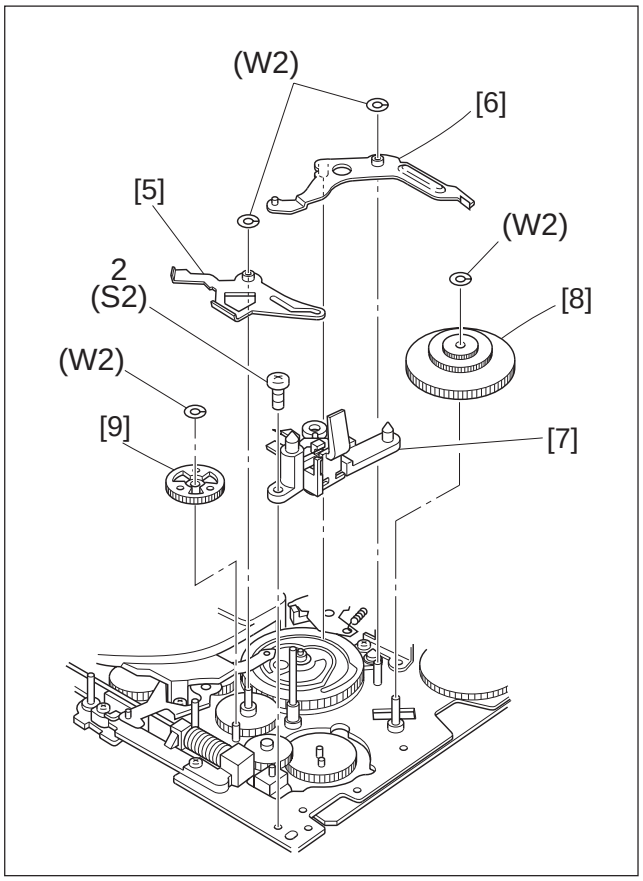


Fig.M2

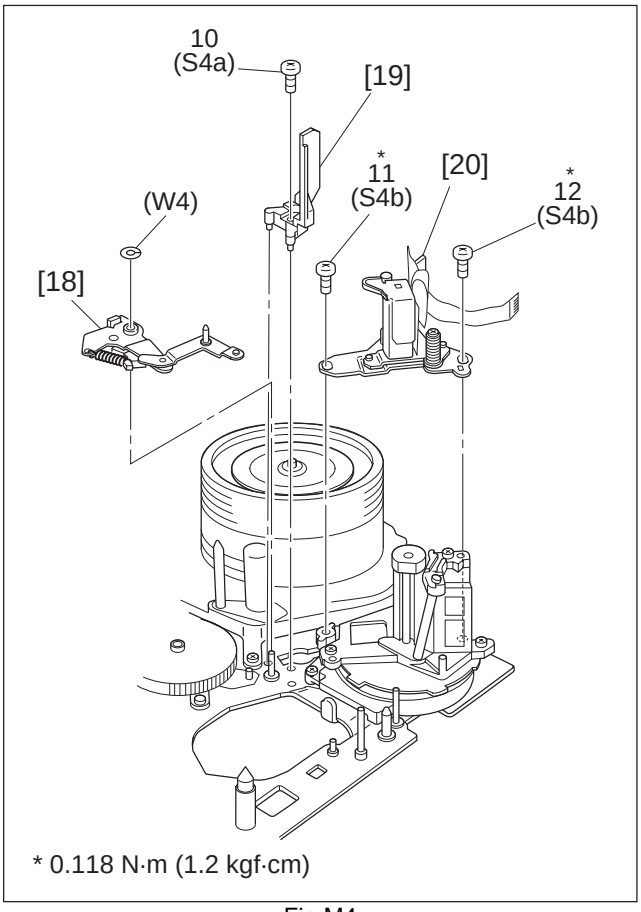


Fig.M4

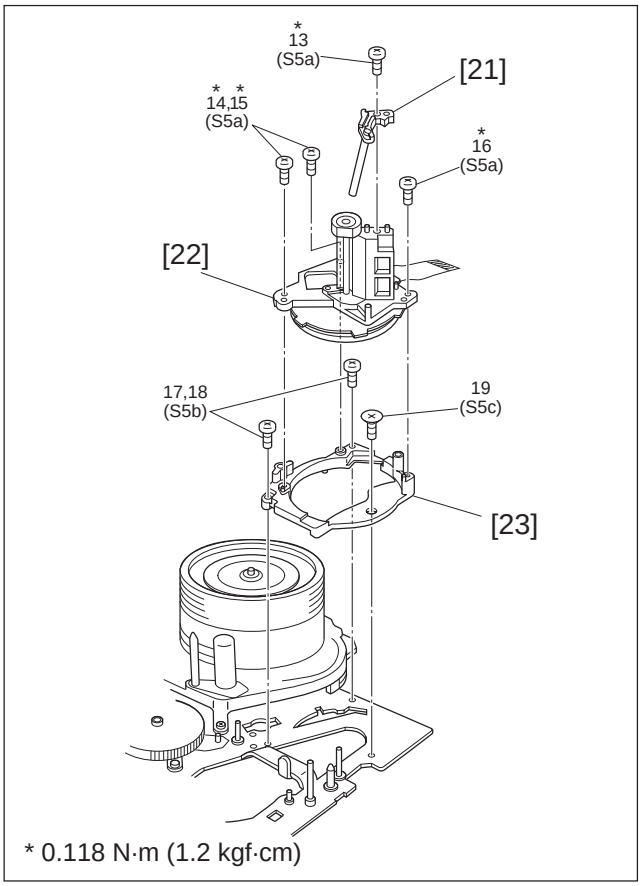


Fig.M5

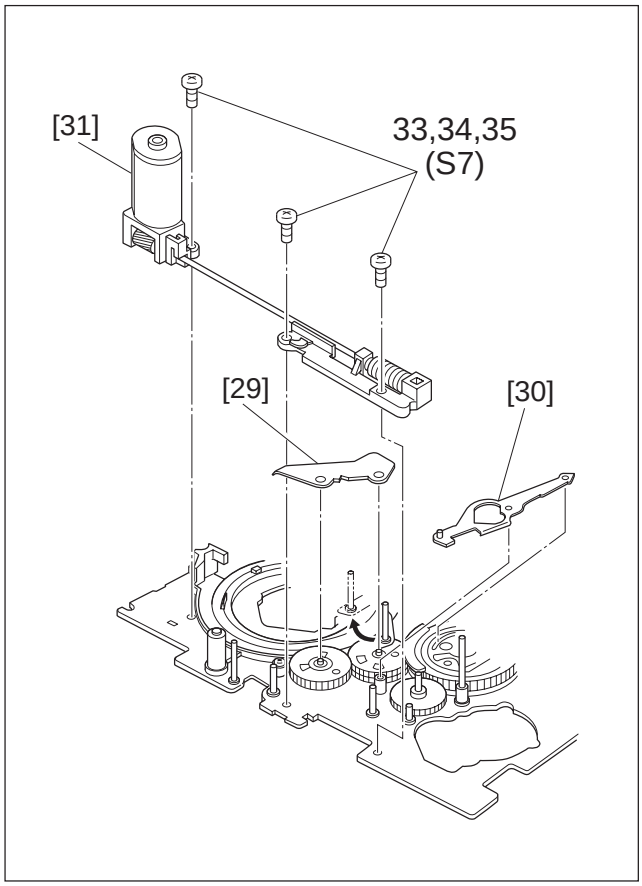


Fig.M7

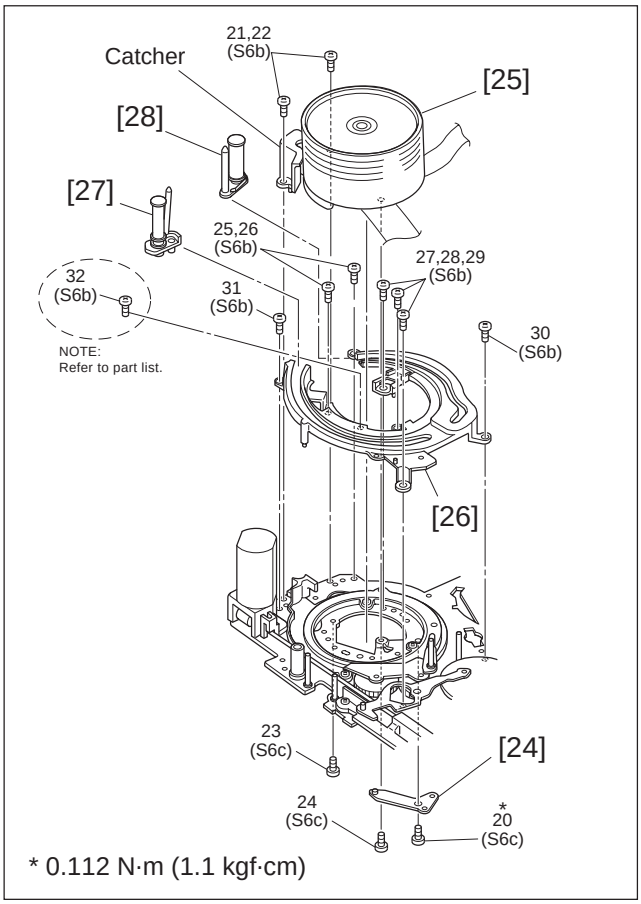


Fig.M6

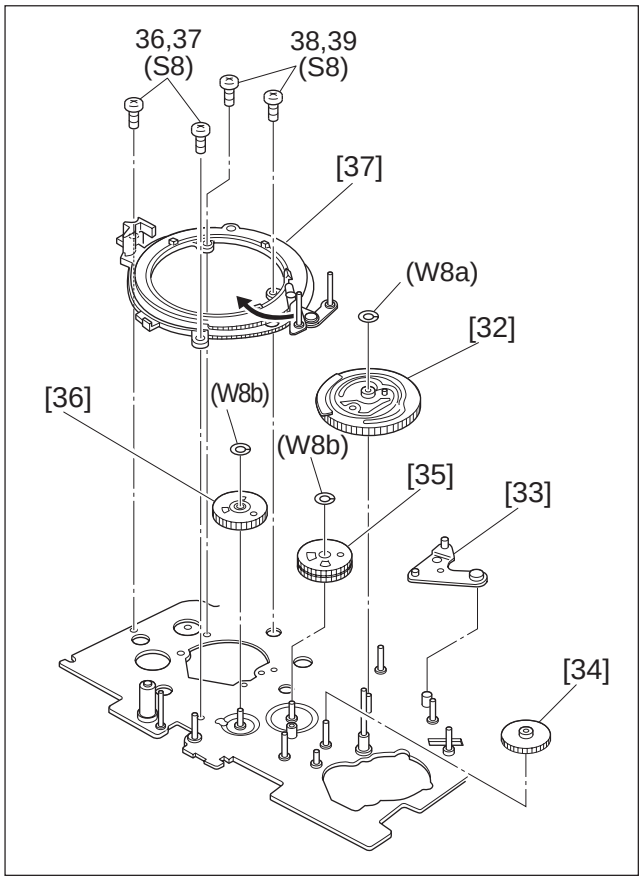


Fig.M8

2.2.4 CHECKUP AND ADJUSTMENT OF MECHANISM PHASE

NOTE:

Pay careful attention to the installing order and phase of mechanism parts of the loading system.

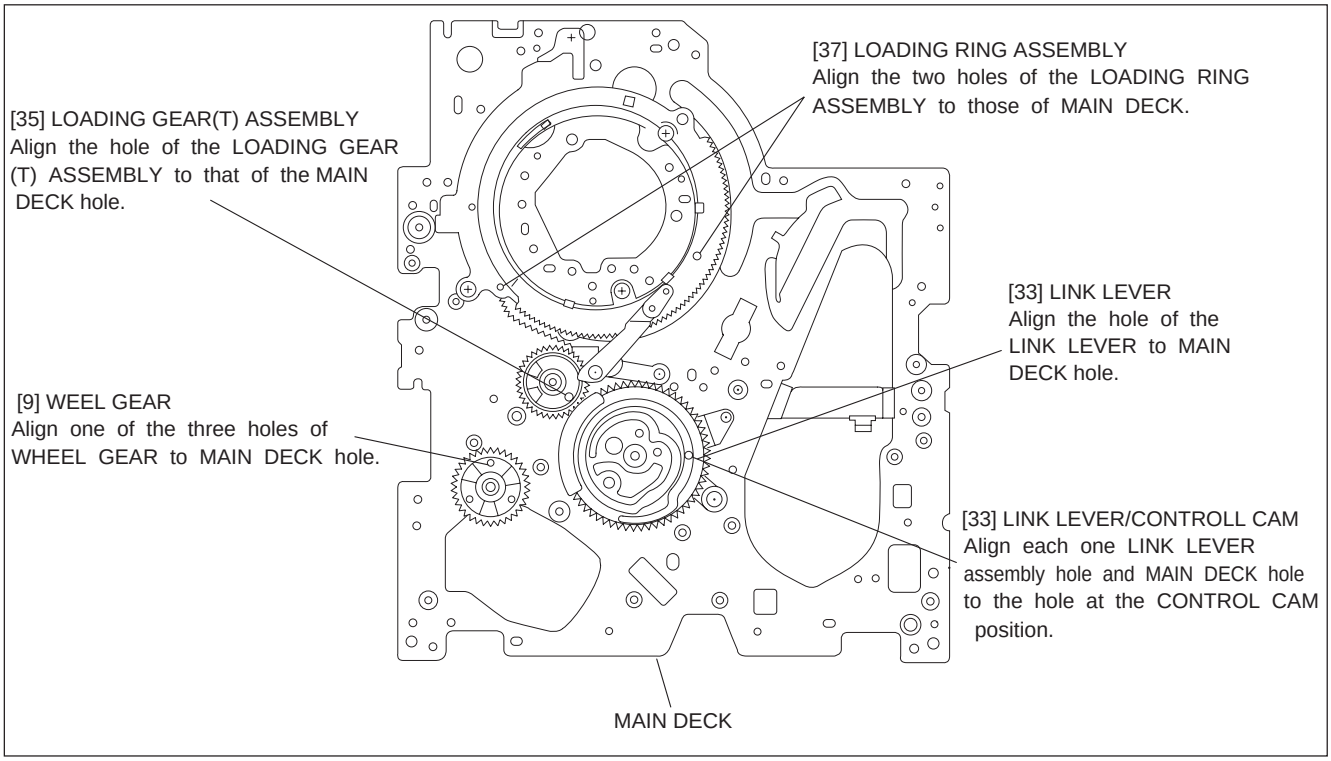

[37] LOADING RING ASSEMBLY
Align the two holes of the LOADING RING ASSEMBLY to those of MAIN DECK.
[35] LOADING GEAR(T) ASSEMBLY
Align the hole of the LOADING GEAR (T) ASSEMBLY to that of the MAIN DECK hole.
[33] LINK LEVER
Align the hole of the LINK LEVER to MAIN DECK hole.
[9] WEEL GEAR
Align one of the three holes of WHEEL GEAR to MAIN DECK hole.
[33] LINK LEVER/CONTROLL CAM
Align each one LINK LEVER assembly hole and MAIN DECK hole to the hole at the CONTROL CAM position.
MAIN DECK

Fig.2-2-5 Top of main deck

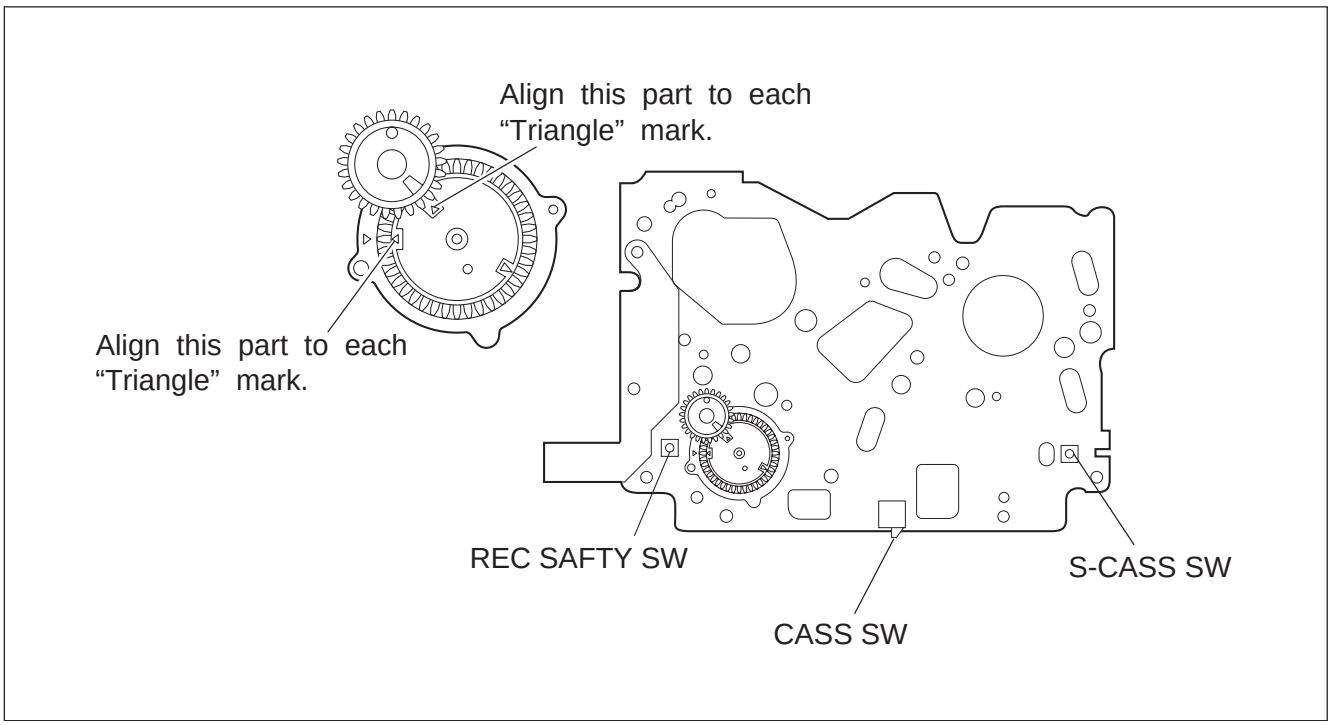


Fig.2-2-6 Rotary encoder

2.2.5 SERVISE NOTE

Use the following chart to manage screws.

Symbol No.	[1]	[7]	[10]				[12]		[13]	[19]	[20]		[21]	[22]			[23]		
Removing order of screw	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Place to stick screw																			
Reference drawing (Fig. No.)	M1	M2	M3							M4			M5						
Screw tightening torque	I										II						I		

Symbol No.	[24]	[25]			[26]							[31]			[37]		
Removing order of screw	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Place to stick screw																				
Reference drawing (Fig. No.)	M6													M7			M8			
Screw tightening torque	III	I																		

<NOTE>

・Pay careful attention to tightening torque for each screw.
Torque setting value of torque driver is limited. At the values over the maximum torque setting value, fasten a screw manually not to damage the screw thread.

I : 0.216N・m(2.2kgf・cm)　　II : 0.118N・m(1.2kgf・cm)　　III : 0.112N・m(1.1kgf・cm)

Fig.2-2-7

2.2.6 REMARKS

2.2.6.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.2.6.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.2 VHS-C MECHANISM ASSEMBLY. Fig.2-2-8 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB

specifies oil and grease to be used

Fig.2-2-8

2.3 VHS MECHANISM

2.3.1 Notes

This model's mechanism relates closely to the rotary encoder and system control circuit (the rotary encoder is meshed with the control cam).
The system control circuit detects the mechanism condition using the rotary encoder's phase (internal switch phase). Therefore, the parts such as the rotary encoder, control plate, loading gear and control cam need to be installed correctly in order for the mechanism to operate properly. (For the mechanism phase adjustment, refer to the installation of each part.)

- Before using a soldering iron, be sure to disconnect the power plug from the AC outlet.
- Do not touch any of the adjustment points until a defect position is specified.
- When plugging or unplugging the connector, be sure not to damage the wire.
- Be sure the springs are hooked all the way around and in the correct direction.
- When performing repairs, take care not to damage a catch, etc.

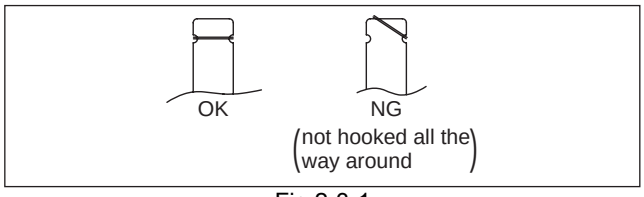


Fig.2-3-1

2.3.2 Mechanism operation check

When the mechanism is operated without a cassette loaded, operate the mechanism in the mechanism service mode.

2.3.3 Setting the mechanism assembling mode

The mechanism-assembling mode is provided with this mechanism. When disassembling and assembling, it is required to engage this mode.
Set the mode by adopting the following procedures.

(1) Remove the mechanism assembly using the disassembling procedure.
(2) Turn gear (a) of the loading motor manually to set the mechanism assembly to the eject end mode. Make sure that the main deck is connected to the guide hole (a) of the drive lever and the seal (a) of the main deck is connected to the mark "E" of the control plate. This condition is called the mechanism-assembling mode.

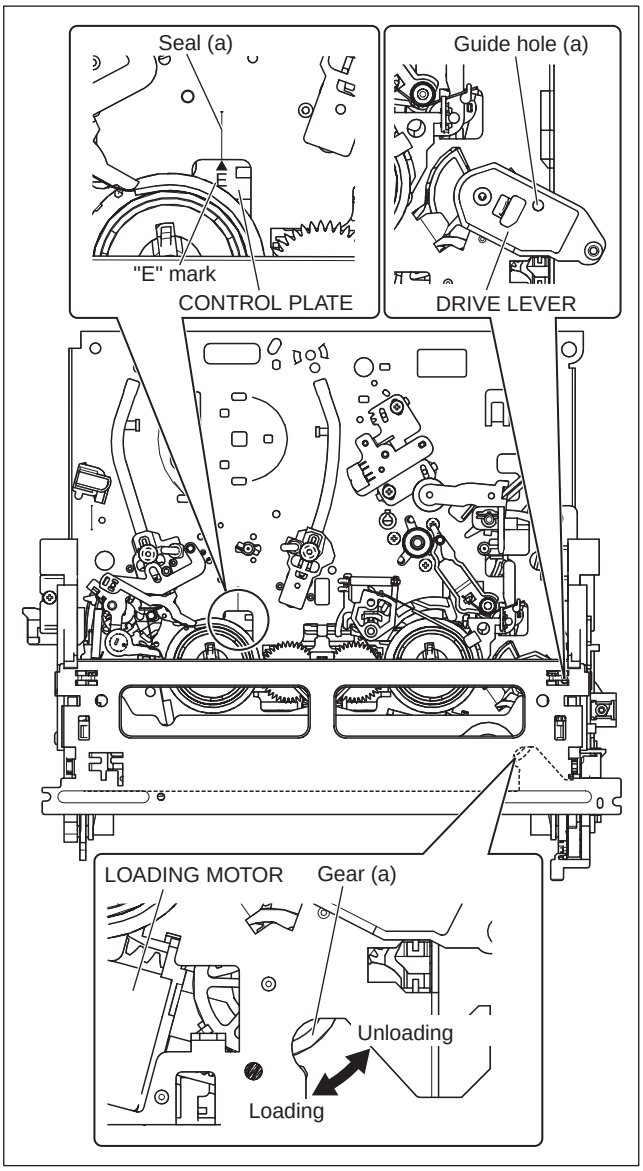


Fig.2-3-2

2.3.4 Layout of the main mechanism parts

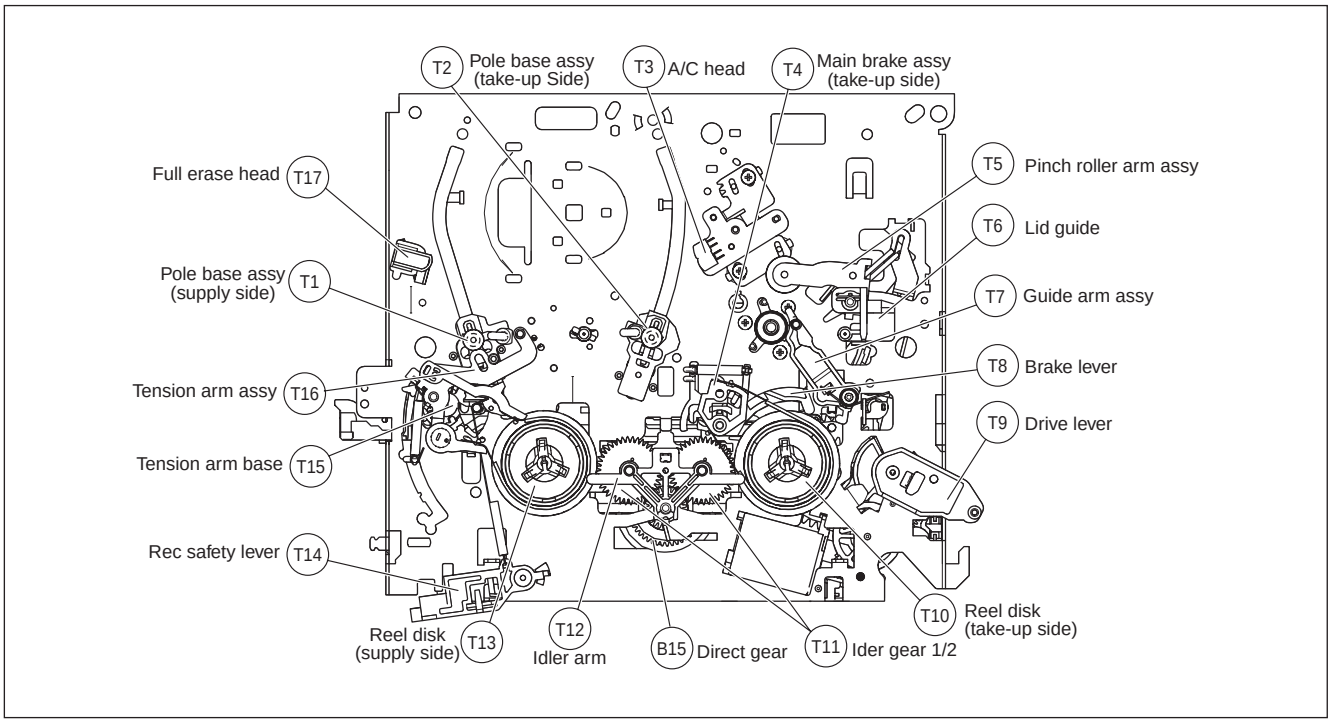

T2 Pole base assy (take-up Side)
T3 A/C head
T4 Main brake assy (take-up side)
Full erase head T17
T5 Pinch roller arm assy
T6 Lid guide
Pole base assy (supply side) T1
T7 Guide arm assy
T8 Brake lever
Tension arm assy T16
T9 Drive lever
Tension arm base T15
Rec safety lever T14
T10 Reel disk (take-up side)
Reel disk (supply side) T13
T12 Idler arm
B15 Direct gear
T11 Ider gear 1/2

Fig.2-3-3

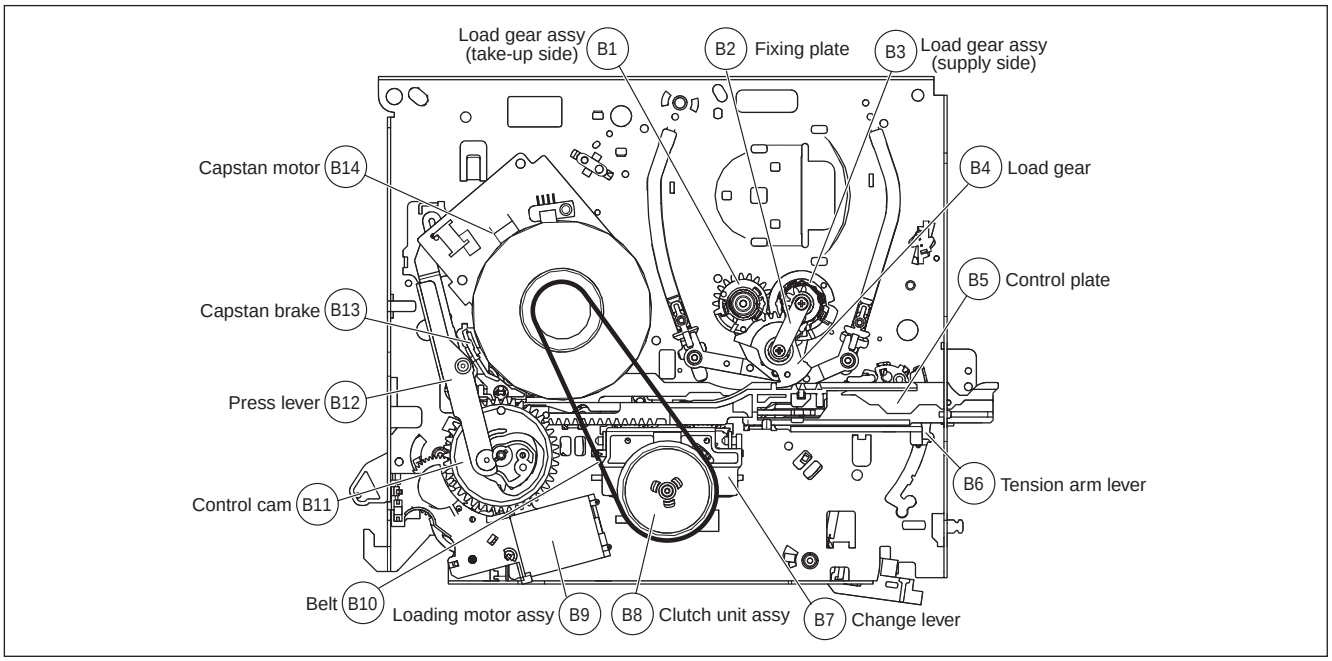


Fig.2-3-4

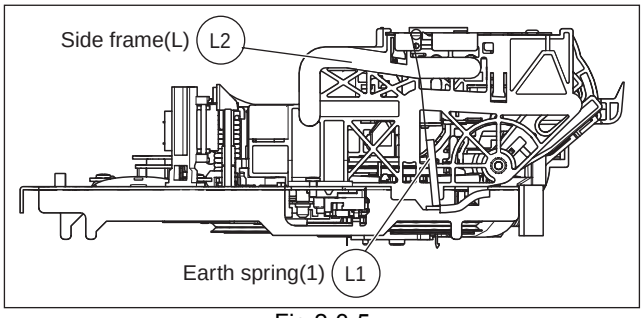


Fig.2-3-5

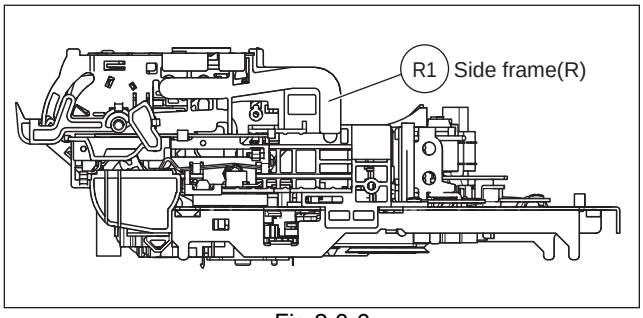


Fig.2-3-6

2.3.5 Disassembling procedure table

This table shows the order of parts removal when replacing each part. For replacement, remove the parts in the order of 1 to 13 shown in the table and install the parts in the reverse order.

The symbol number before each part name shows the number in the figure “Layout of the main mechanism parts”. T and B on the right of each part name show the side from which the part should be removed (T: From the front of the mechanism, B: From the rear of the mechanism, T/B: From both sides).

Symbols and numbers	Removal parts / (Reference items) Replacement parts	Front(T)/Back(B) of mechanism	Number of removal steps	Earth spring (1)	Top frame	Cassette holder	Side frame (L)	Drive arm	Side frame (R)	Lid guide	Idler arm	Idler gear 1/2	Main brake (T)	Reel disk (T)	Tension arm	Tension arm base	Press lever	Control cam	Capstan brake assy	Loading motor assy	Belt	Fixing plate	Load gear	Loading gear assy (S)	Loading gear assy (T)	Control plate	Clutch unit	Direct gear
L1	2.1 Earth spring (1)	T	1																									
-	2.1 Top frame	T	2	1																								
-	2.1 Cassette holder	T	3	1	2																							
L2	2.1 Side frame (L)	T	3	1	2																							
-	2.1 Drive arm	T	5	1	2	3	4																					
R1	2.1 Side frame (R)	T	3	1	2																							
T3	2.2 A/C head	T	1																									
T17	- FE head	T/B	1																									
T7	2.3 Guide arm assy	T	1																									
T6	2.3 Lid guide	T	1																									
T5	2.3 Pinch roller arm assy	T	2							1																		
T12	2.4 Idler arm	T	4	1	2	3																						
T11	2.4 Idler gear 1/2	T	5	1	2	3					4																	
T4	2.5 Main brake assy (T)	T	6	1	2	3					4	5																
T10	2.5 Reel disk (T)	T	7	1	2	3					4	5	6															
T16	2.5 Tension arm	T	6	1	2	3					4	5																
T13	2.5 Reel disk (S)	T	7	1	2	3					4	5			6													
T15	2.5 Tension arm base	T	7	1	2	3					4	5			6													
-	- T-up head	T	8	1	2	3					4	5			6	7												
-	- T-up lever	T	8	1	2	3					4	5			6	7												
T8	2.5 Brake lever	T	8	1	2	3					4	5	6	7														
T14	2.5 Rec safety lever	T	7	1	2	3	4	5	6																			
B12	2.6 Press lever	B	1																									
B11	2.6 Control cam	B	2														1											
B13	2.6 Capstan brake assy	B	3														1	2										
B9	2.6 Loading motor assy	B	4														1	2	3									
B10	2.7 Belt	B	1																									
B14	2.7 Capstan motor	T/B	2																		1							
-	- Wire holder	T/B	1																									
B2	2.7 Fixing plate	B	1																									
B4	2.7 Load gear	B	2																			1						
B3	2.7 Loading gear assy(S)	B	3																			1	2					
B1	2.7 Loading gear assy(T)	B	4																			1	2	3				
T1	- Pole base assy(S)	T/B	4																			1	2	3				
T2	- Pole base assy(T)	T/B	5																			1	2	3	4			
-	- Load gear base	B	5																			1	2	3	4			
B5	2.7 Control plate	B	6														1	2			3	4	5					
T9	- Drive lever	T/B	10	1	2	3	4	5	6								7	8		9								
B8	2.8 Clutch unit	B	2																		1							
B15	2.8 Direct gear	B	3																		1						2	
B7	- Change lever	T/B	6								1	2									3						4	5
B6	- Tension arm lever	T/B	14	1	2	3					4	5			6	7	8	9			10	11	12			13		

2.3.6 REPLACEMENT OF THE MAIN MECHANISM PARTS

2.3.6.1 Cassette holder

2.3.6.1.1 Removal

(1) Remove the screws (a) and (b).
(2) Hold up the top frame, cassette holder assembly, drive arm assembly and side frames (L/R) all together and remove them by releasing the hooks (a) and (b).

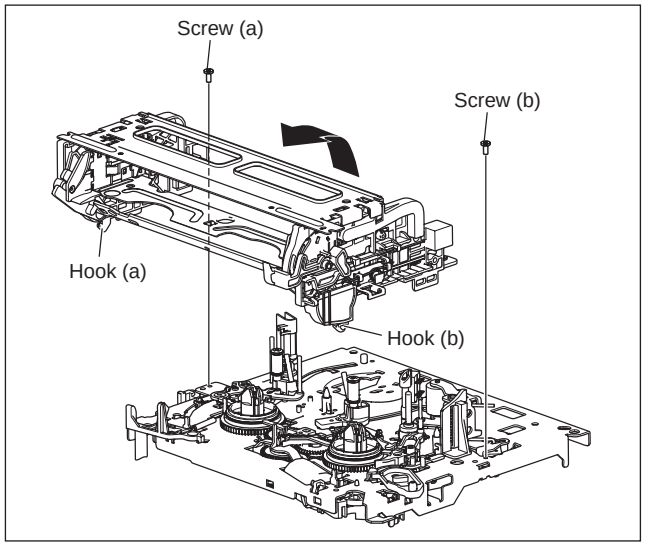


Fig.2-3-7

2.3.6.1.2 Installation (phase adjustment)

(1) Turn gear (a) of the loading motor assembly so that the main deck connects to the guide hole (a) of the drive lever.
(2) Hook the main deck to hooks (a) and (b).
(3) Place the projection of the drive lever to section (a) of the side frame (R) and install the cassette holder to the main deck. Make sure that the bosses of the side frame (L/R) connect with the holes (a) and (b) of the main deck.
(4) Secure screws (a) and (b).

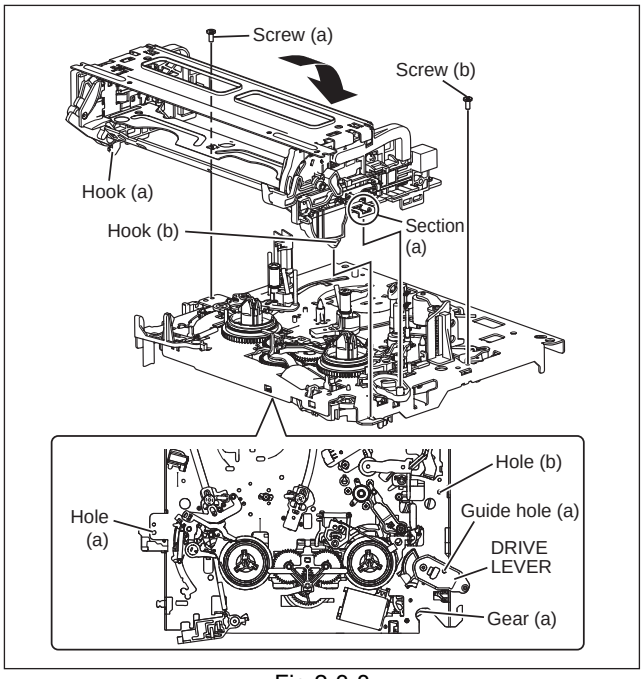


Fig.2-3-8

2.3.6.1.3 Disassembling

(1) Release hook (a) to remove the earth spring (1) from the top frame.
(2) Release the catches (a) and (b) and pull the top frame in the direction shown by the arrow (a) to remove it.
(3) Pull out the side frame (R).
(4) Pull out the cassette holder assembly and drive arm assembly from the side frame (L).

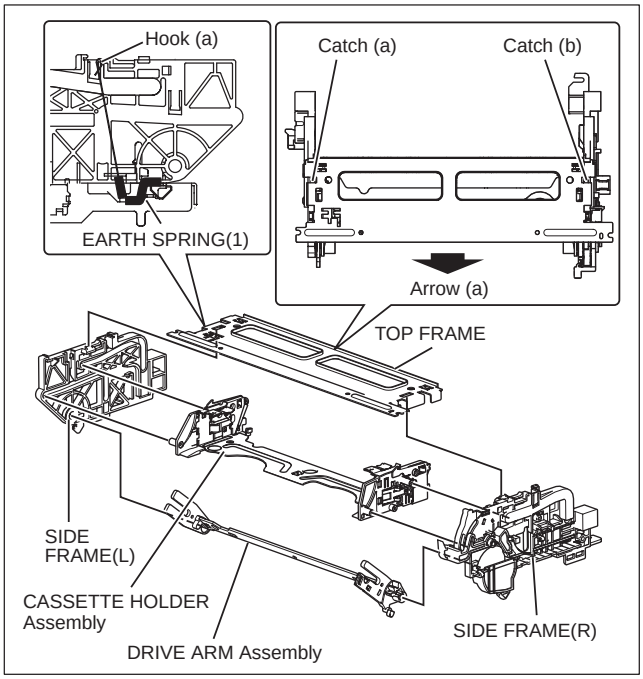


Fig.2-3-9

2.3.6.1.4 Assembling (installation and phase adjustment)

(1) Turn gear (a) of the loading motor assembly so that the main deck connects to the guide hole (a) of the drive lever.
(2) Place the projection of the drive lever on section (a) of the side frame (R) and install the side frame (R) to the main deck.
(3) Secure screw (b).
(4) Place section (b) of the drive arm on the gear of the side frame (R). Make sure that the pin of the door opener connects with section (c) of the drive arm.
(5) Place the drive arm on section (d) of the side frame (L) and install the side frame (L) on the main deck. Be sure to connect the earth spring (1) to the side frame (L).
(6) Secure screw (a).
(7) Turn gear (a) of the loading motor assembly until the drive arm is vertical.
(8) Place the slit of the side frame (L/R) at the foot of the cassette holder assembly and install the cassette holder.
(9) Place the top frame on the position guide (a) of the side frame (L/R) and push it in the direction shown by the arrow (a) for installation.
(10) Hook the earth spring (1) to the hook (a) of the top frame.

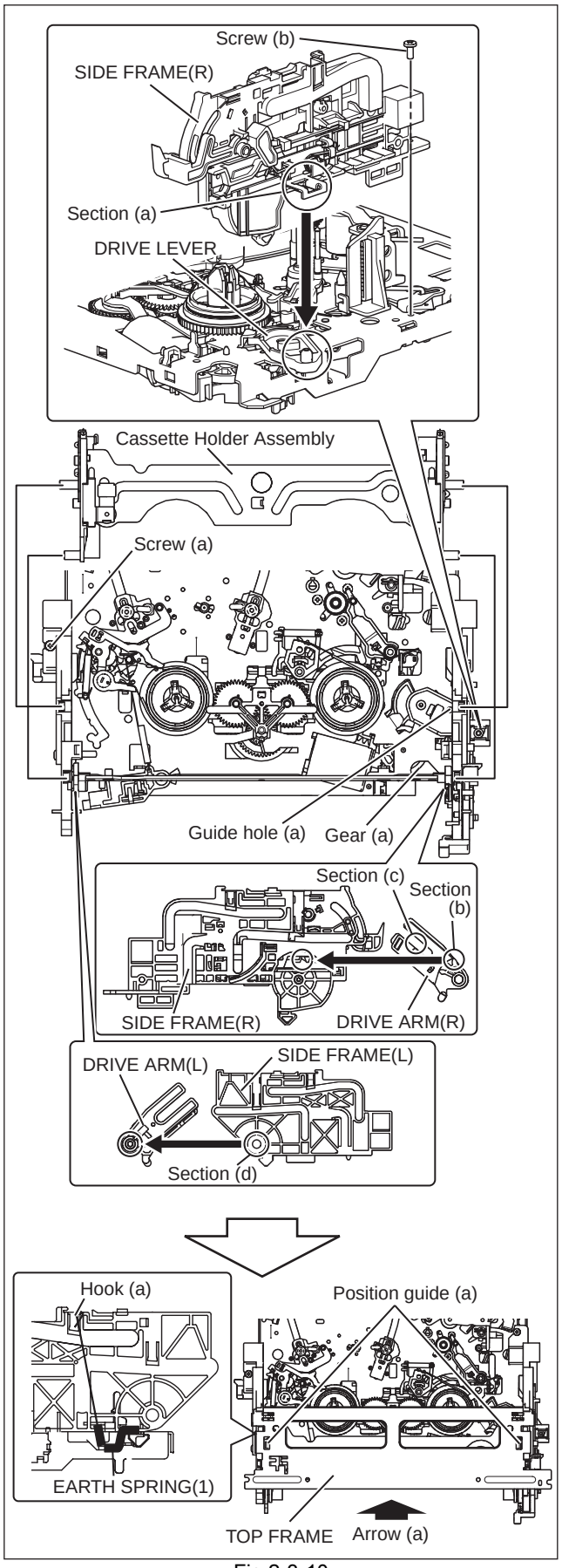


Fig.2-3-10

2.3.6.2 A/C head

2.3.6.2.1 Removal

(1) Remove screws (a) and (b).
(2) Remove the A/C head together with the head base.
(3) Remove the screws (c), (d) and (e) to remove the spring (a) and the A/C head from the Head base.

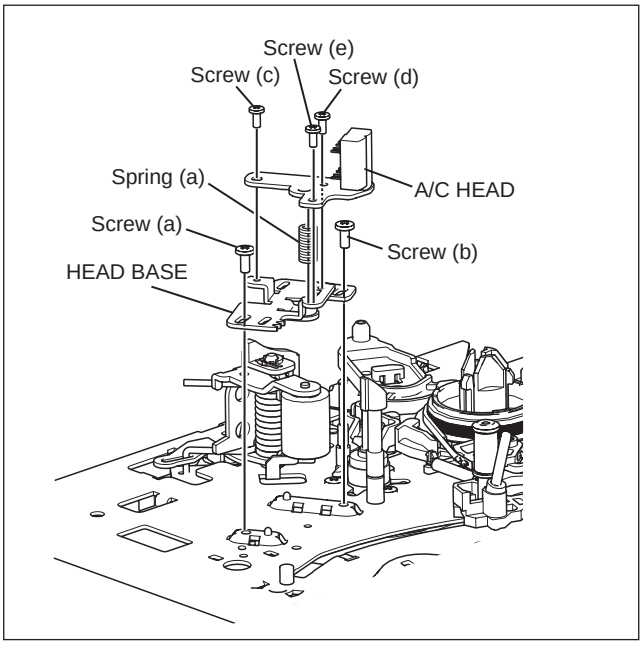


Fig.2-3-11

2.3.6.2.2 Installation (initial setting)

To install the A/C head to the head base, secure the screws in the order of (c), (d) and (e). To make the adjustment easy, temporarily elevate the A/C head.

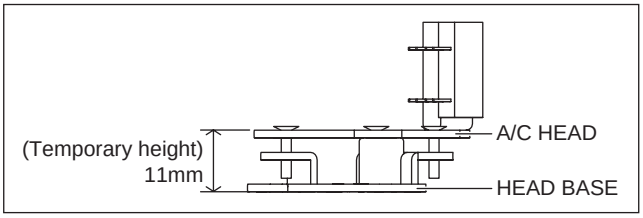


Fig.2-3-12

2.3.6.3 Guide arm, pinch roller arm

2.3.6.3.1 Removal

(1) Remove the spring (a) from the hook (a) and detach the guide arm assembly.
(2) Release the catch (a) to remove the lid guide.
(3) Remove the spring (b) from the hook (b) and detach the pinch roller arm assembly.

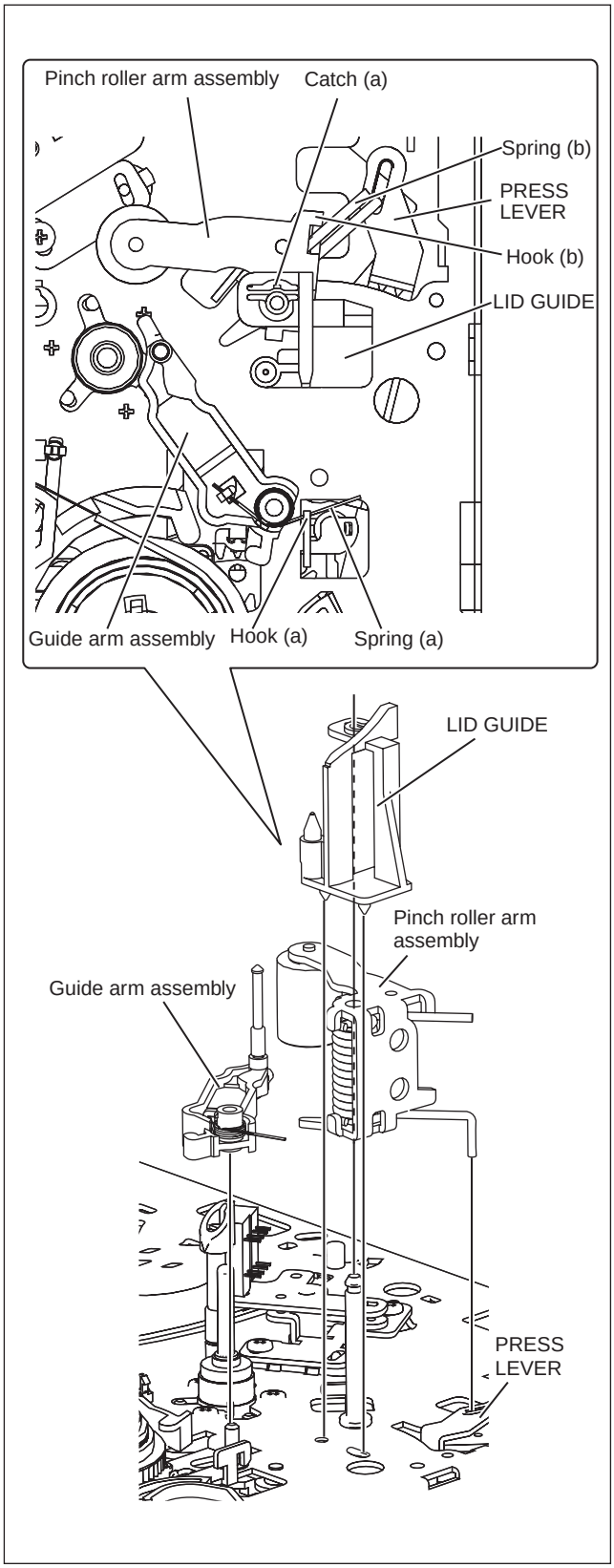


Fig.2-3-13

2.3.6.4 Idler arm, idler gear 1/2

2.3.6.4.1 Removal

(1) Release the catches (a) and (b) to detach the idler arm.
(2) Detach the idler gear 1/2.

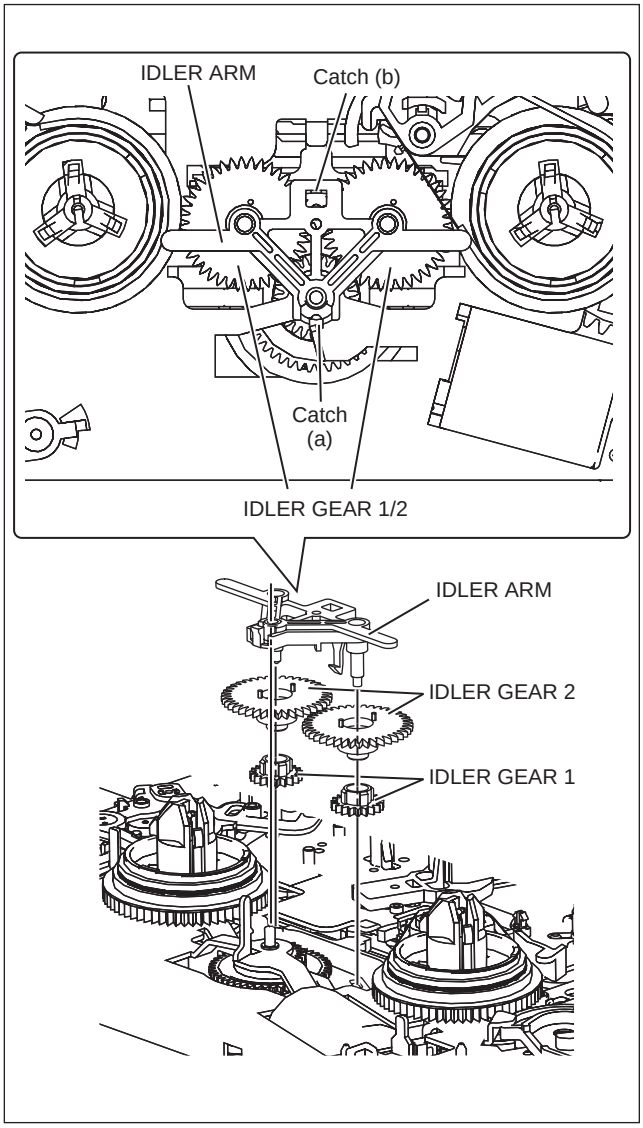


Fig.2-3-14

2.3.6.5 Main brake (T), brake lever, tension arm, reel disk (S/T), Rec safety lever

2.3.6.5.1 Removal

(1) Remove the spring (a). (Detach section (b) of the spring (a).)
(2) Release the catch (a) to detach the main brake (T).
(3) Release the catch (b) to detach the reel disk (T) and the spacer.
(4) Lift up and turn section (b) of the brake lever counterclockwise to remove the brake lever.
(5) Remove the spring (b) from the hook (a).
(6) Release the catch (c) to detach the tension arm.
(7) Release the catch (d) to detach the reel disk (S) and the spacer.
(8) Remove the spring (c) from the hook (b).
(9) Turn the tension arm base in the direction shown by arrow (a) to release catch (e). Place the projections of the tension arm base to the holes (a) to detach the tension arm base.
(10) While releasing the catch (f), turn the Rec safety lever counterclockwise to remove it.

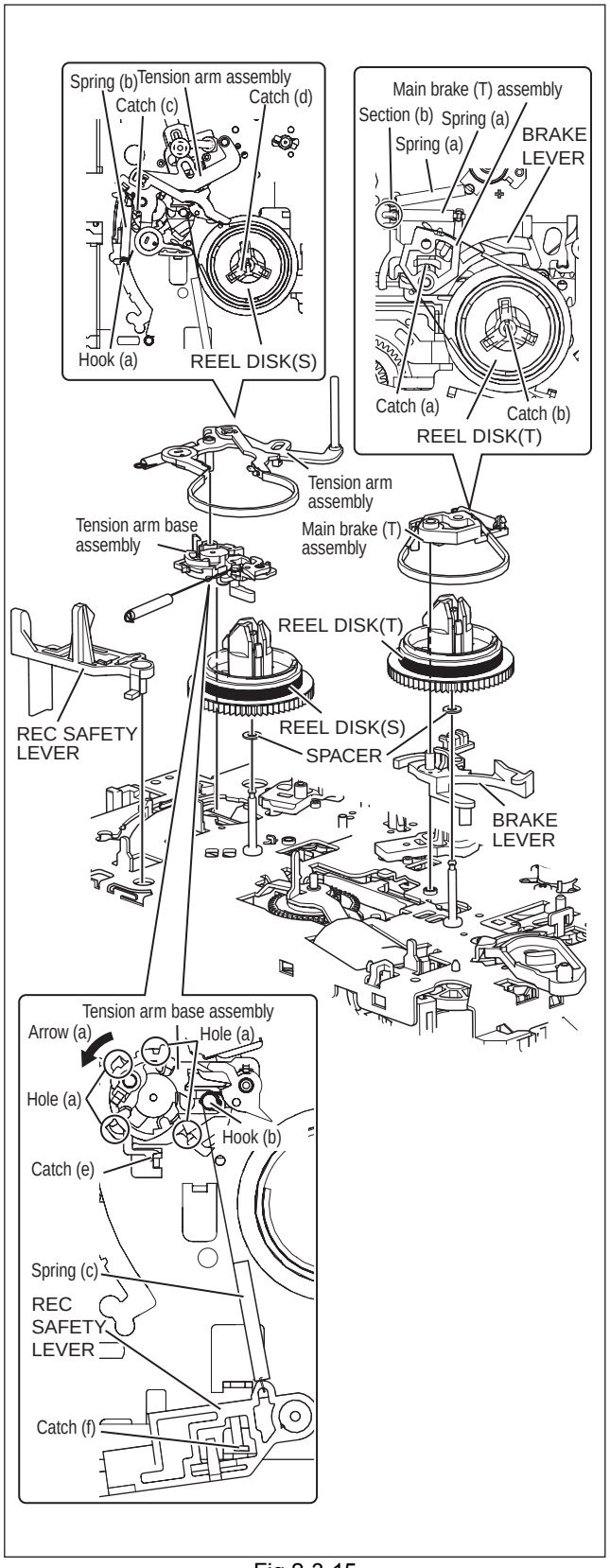


Fig.2-3-15

2.3.6.6 Press lever, control cam, capstan brake assembly, loading motor assembly

2.3.6.6.1 Removal

(1) Remove the slit washer (a) to detach the press lever.
(2) Release the slit washer (b) to detach the control cam.
(3) Release the catch (b) to detach the capstan brake assembly.
(4) Remove the solder (a).
(5) Remove the screw (a).
(6) Release the catches (c) and (d) to detach the loading motor assembly.

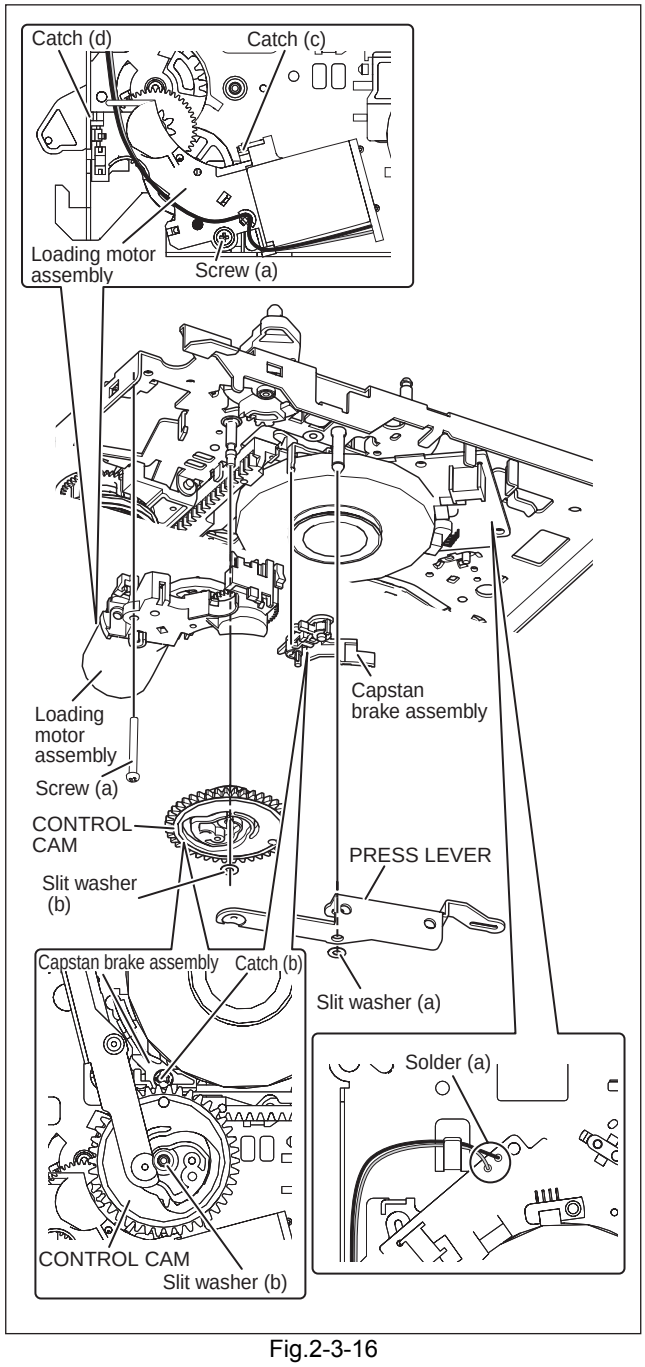


Fig.2-3-16

2.3.6.6.2 Installation (phase adjustment)

(1) Attach the loading motor assembly to the main deck.
(2) Secure the screw (a).
(3) Solder the wire to section (a).
(4) Arrange the wire along with the position guide (b).
(5) Attach the capstan brake assembly to the main deck.
(6) Place the main deck on the guide hole (a) of the control plate.
(7) Place the main deck on the guide hole (b) of the drive lever.
(8) Place the main deck no guide hole (c) of the control cam to install the control cam.
(9) Move the capstan brake in the direction shown by the arrow (a) to attach the press lever to the shaft (a). Make sure that the boss of the press lever fits in the control cam, and that the shaft (b) of the pinch roller arm assembly connects with the hole of the press lever.
(10) Attach slit washer (a) to shaft (a).

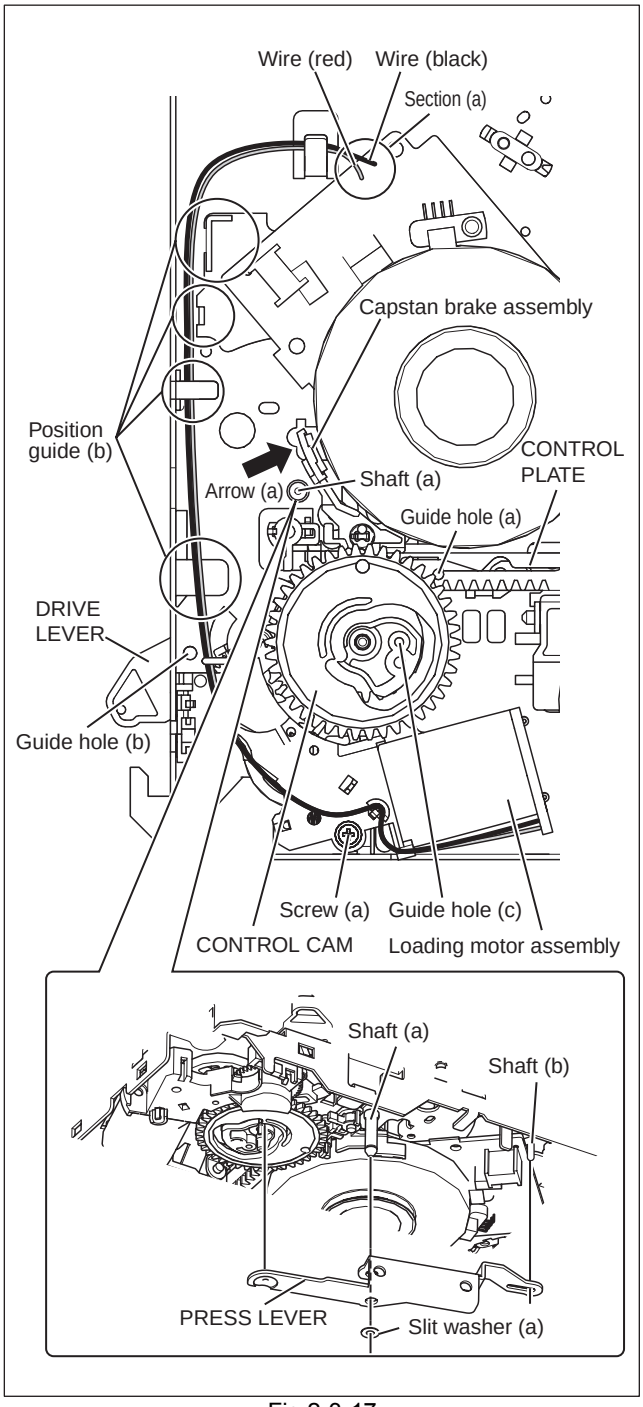


Fig.2-3-17

Note:

- When replacing the worm bearing of the loading motor assembly, attach it according to the following specification.
  If worm bearing is not attached correctly, a mechanism noise may occur. (See Fig. 2-3-18)

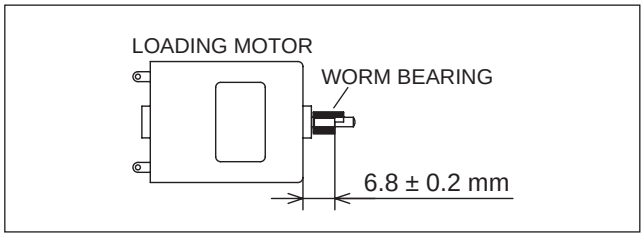


Fig.2-3-18

2.3.6.7 Capstan motor, load gear, control plate

2.3.6.7.1 Removal

(1) Detach the belt.
(2) Check that the FFC connector on the drum is disconnected.
(3) Release the catch (a) to remove the FFC wire.
(4) Remove the screws (a) to detach the capstan motor.
(5) Remove the screws (b) to detach the fixing plate.
(6) Release the catch (b) to detach the load gear.
(7) Turn the load gear (S/T) in the loading direction to detach it.
(8) Remove the control plate.

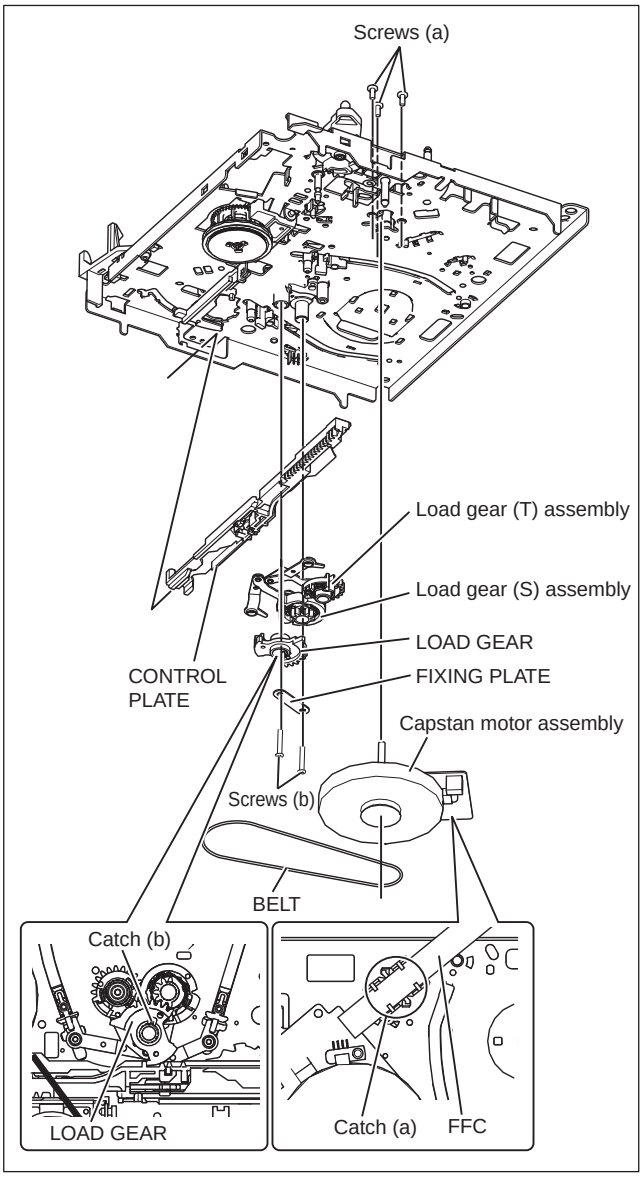


Fig.2-3-19

2.3.6.7.2 Installation (phase adjustment)

(1) Place the main deck on the guide hole (a) of the tension arm lever.
(2) Place the main deck on the guide hole (b) of the brake lever.
(3) Attach the control plate to align with the position guide (a).
(4) Place the hole (c) of the load arm (T) on the pole base (T) and the load gear (T) on the load gear base.
(5) Place the hole (d) of the load arm (S) on the pole base (S) and the load gear (S) on the load gear base. Be sure to align the guide mark (e) of the load gear (T) to that of the load gear (S).
(6) Turn the load gear (S/T) in the unloading direction to place the main deck on the guide hole (f) of the load gear (T).
(7) Place the main deck on the guide hole (g) of the control plate.
(8) Attach the load gear on the load gear base so that the control plate is placed on the edge (h) of the load gear.
(9) Place the fixing plate on the shaft of the load gear base and secure the screws (b).

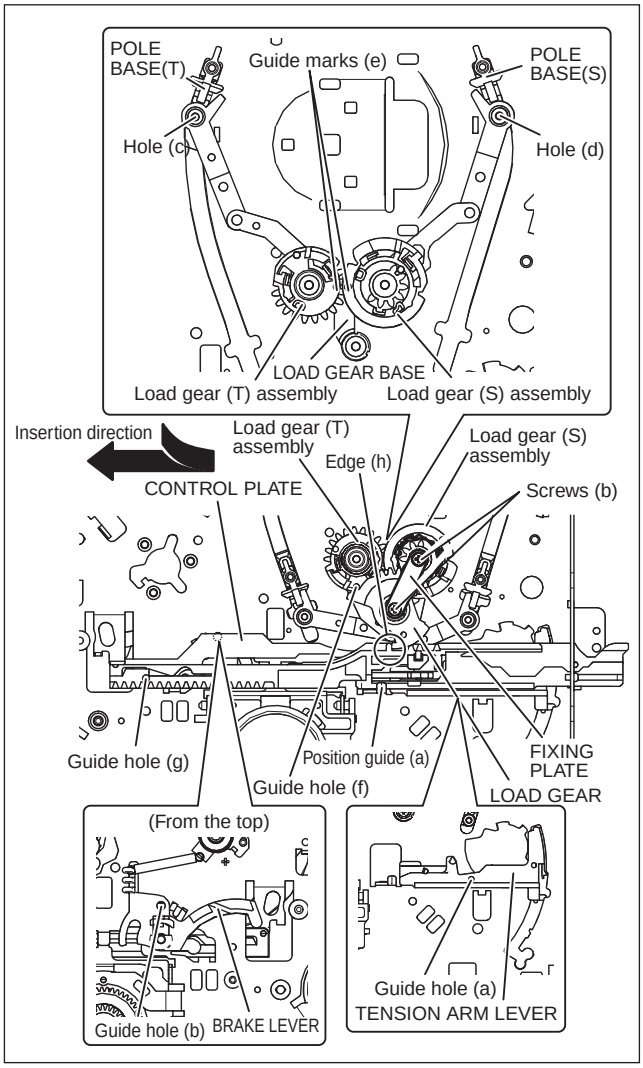


Fig.2-3-20

2.3.6.8 Clutch unit assembly, direct gear

2.3.6.8.1 Removal

(1) Remove the slit washer (a) to detach the clutch unit assembly.
(2) Remove the spring (a) and the direct gear.

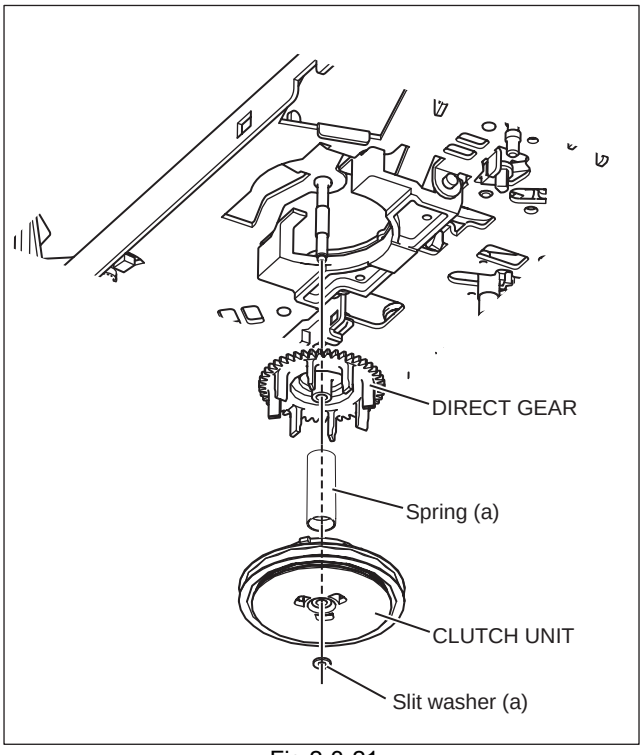
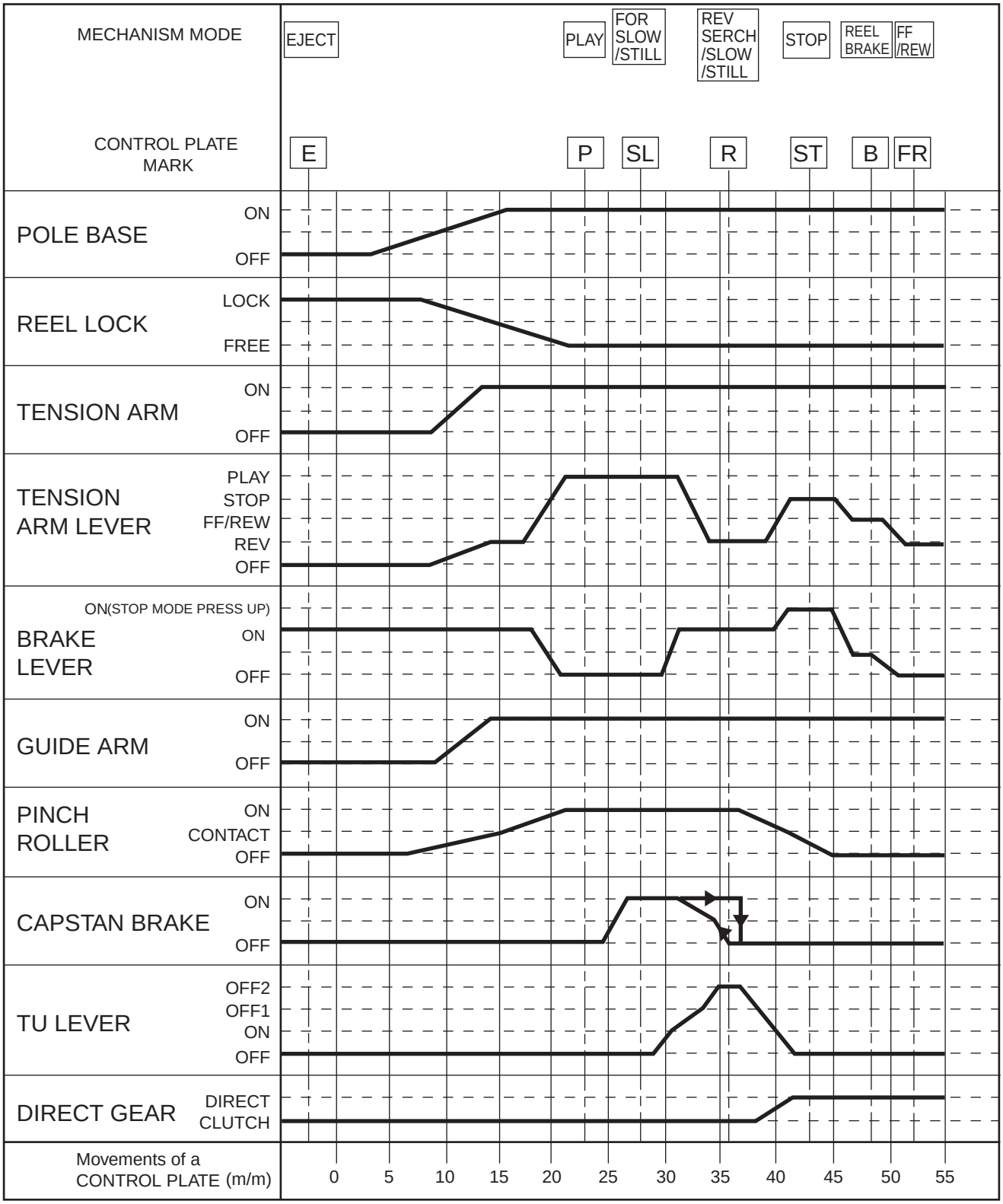


Fig.2-3-21

2.3.7 MECHANISM TIMING CHART



2.3.8 REMARKS

2.3.8.1 Cleaning

(1) For cleaning of the upper drum (particularly video heads), use fine-woven cotton cloth with alcohol soaks through. Do not move the cloth but turn the upper drum counterclockwise.

NOTE:
Make sure not to move the cloth in the vertical direction to the video head, since it may cause damage of the video heads.

(2) For cleaning of parts of the tape transport system except the upper drum, use fine-woven cotton cloth or cotton swab soaked alcohol.

(3) After cleaning, confirm that the cleaned parts are completely dry before loading the deck with cassette tape.

2.3.8.2 Applying oil and grease

(1) Periodical oiling and greasing are not required but should be done to new parts when replacing. If oil and grease on the other parts of the other party are old and dirty, wipe them clean and apply new oil or grease.

(2) For parts and points to apply oil and grease, refer to the exploded view of the 3.3 VHS MECHANISM ASSEMBLY. Fig.2-3-22 specifies oil and grease to be used.

(3) When oiling, clean the objective parts with alcohol first and apply one or two drop(s) of oil. Too much oiling causes rotary parts to slip because of oil leakage.

Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

specifies oil and grease to be used

Fig.2-3-22

JVC

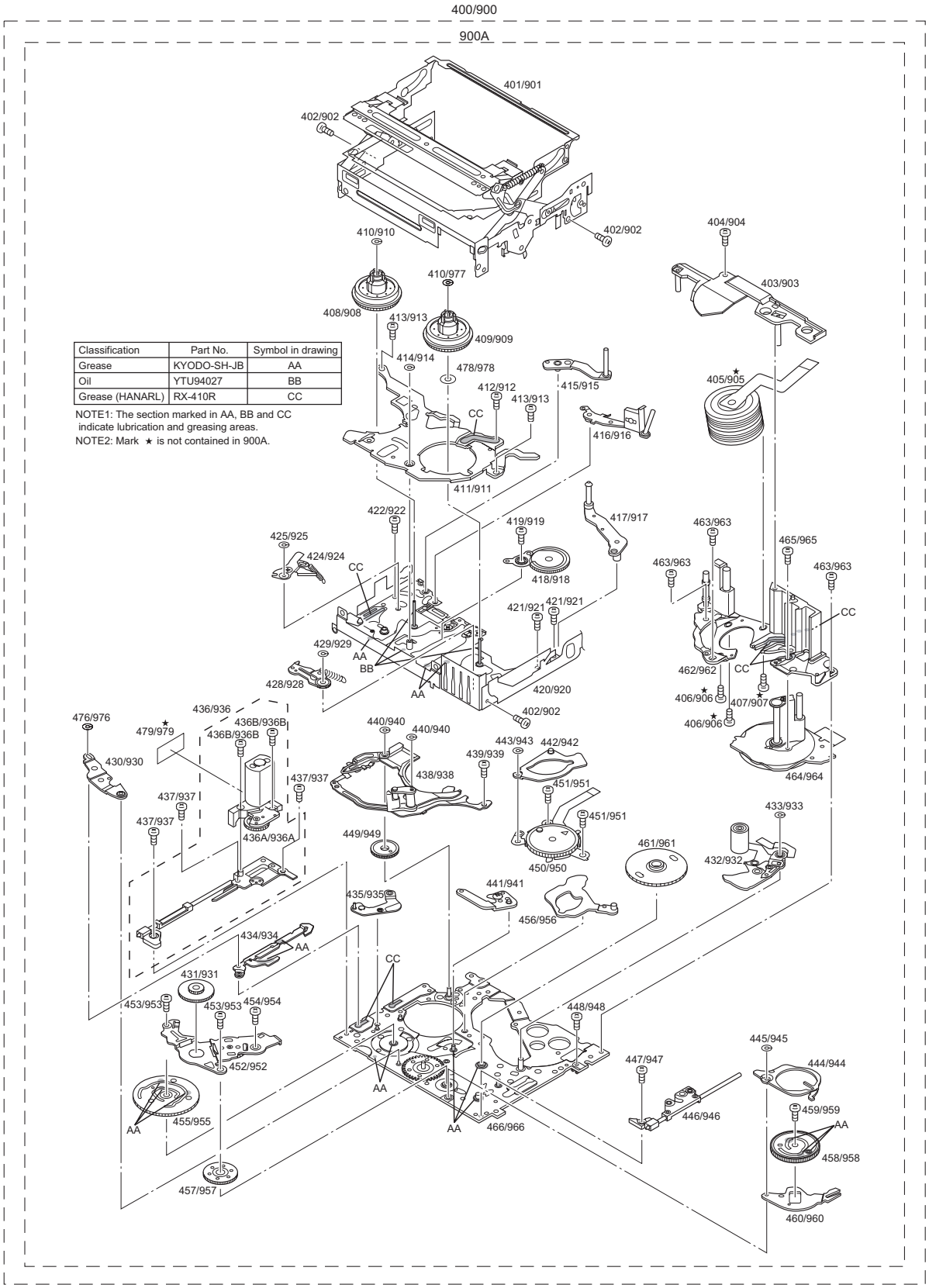
VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY CAMCORDER CATEGORY 12, 3-chome, Moriya-cho, kanagawa-ku, Yokohama, kanagawa-prefecture, 221-8528, Japan

(No.86700)

Printed in Japan
200304WPC

SECTION 3
PARTS LIST

3.1 DVC MECHANISM ASSEMBLY



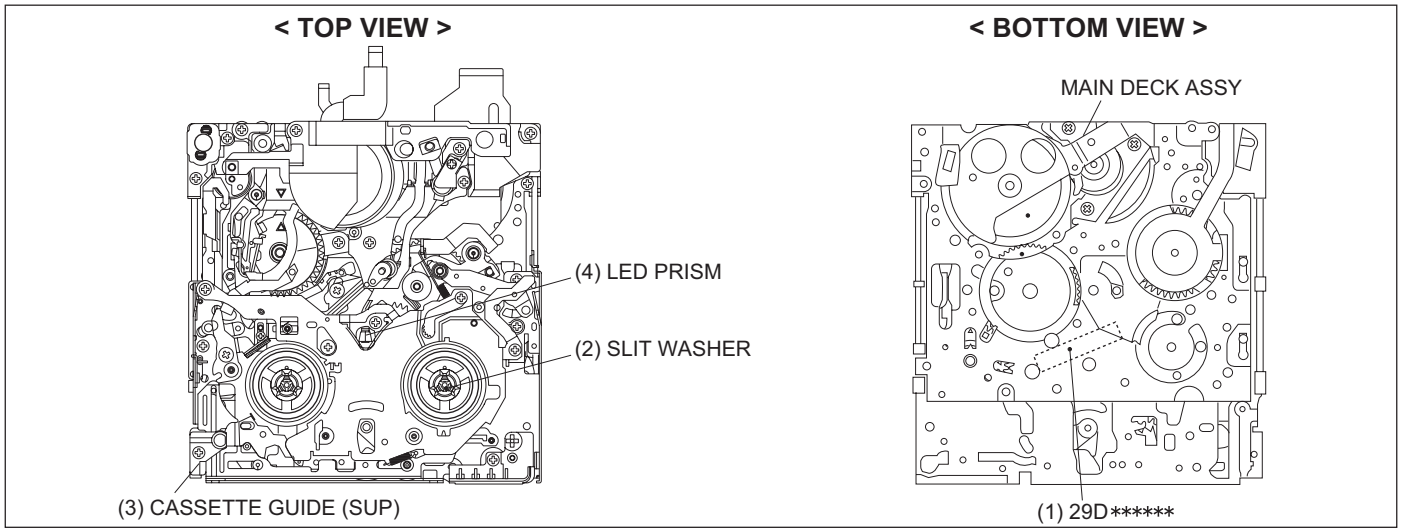
Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB
Grease (HANARL)	RX-410R	CC

NOTE1: The section marked in AA, BB and CC indicate lubrication and greasing areas.
NOTE2: Mark ★ is not contained in 900A.

Fig.3-1-1

3.1.1 DVC MECHANISM ASSEMBLY PART LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.
- To distinguish the mechanism assembly with the symbol number of 400-499 from the mechanism assembly with the symbol number of 900-999, see the following procedures.
  (1) See the numbers on the backside of the MAIN DECK ASSY.
  For example, "29D******" is printed on the backside of the mechanism assembly with the symbol number of 900-999 (YMA0029D in this example). See the first three characters and numbers from the left.
  (2) See the color of the SLIT WASHER on the REEL DISK (TU).
  A red slit washer is used (the same color as a slit washer of CASSETTE GUIDE (SUP)) in the mechanism assembly with the symbol number of 400-499. A black slit washer is used in the mechanism assembly with the symbol number of 900-999.
  However, the black slit washer may be changed into a red one for the purpose of parts unification.
  (3) See the color of the CASSETTE GUIDE(SUP).
  Light-brown CASSETTE GUIDE(SUP) is used in the mechanism assembly with the symbol number of 400-499.
  Black CASSETTE GUIDE(SUP) is used in the mechanism assembly with the symbol number of 900-999.
  (4) See the shape of the LED PRISM. LED PRISM consists of only resin in the mechanism assembly with the symbol number of 400-499.
  Upper part of the LED PRISM is covered with black metal in the mechanism assembly with the symbol number of 900-999.



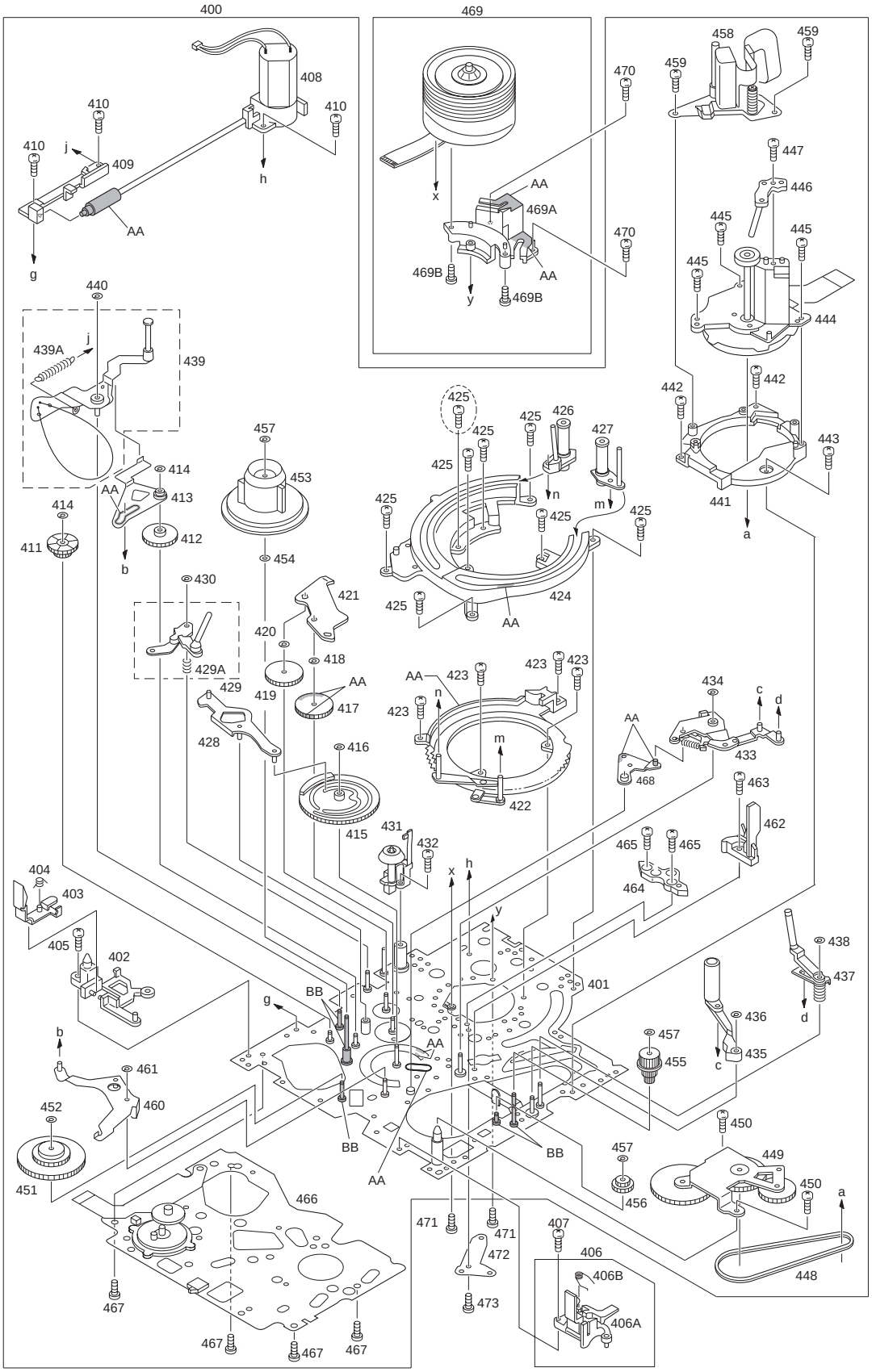
Part Name	Symbol No.	Part No.	Part No.	Part No.	Symbol No.	Part No.	Patr No.
MECHA(A) ASSY	400	YMA0029C	YMA0029M	YMA0029L	900	YMA0029H	YMA0029E
MECHA(A)ASSY	-	-	-	-	900A	YMA0029D	-
CASSETTE HOUSING ASSY	401	LY31543-002E*	LY31543-002H	←	901	LY32870-001G*	LY32870-001J
MINI SCREW,X3	402	YQ43893-8	←	←	902	←	←
UPPER BASE ASSY	403	LY31542-001J	←	←	903	LYH30420-001A	←
MINI SCREW	404	YQ43893*	QYSPSPU1425M	←	904	←	←
DRUM ASSY	405	**	**	**	905	**	**
DAMP.SCREW ASSY,X2	406	LY42820-001A	←	←	906	←	←
DAMP.SCREW ASSY	407	LY42820-002A	←	←	907	←	←
REEL DISK ASSY (SUP)	408	LY31538-001B*	LY31538-001F	←	908	←	←
REEL DISK ASSY (TU)	409	LY31538-002B*	LY31538-002H	LY31538-002G	909	LY31538-002H	←
SLIT WASHER,X2 or X1	410	YQ44246,(x2)	←,(x2)	←,(x2)	910	←*,(x1)	←,(x2)
REEL COVER ASSY	411	LY10217-001A*	LY10217-001F	←	911	LY10372-001D	←
MINI SCREW	412	LY42120-001A*	LY42120-002A	←	912	←	←
MINI SCREW,X2	413	LY41945-003A	←	←	913	←	←
SLIT WASHER	414	YQ44246	←	←	914	←	←
TENSION ARM ASSY	415	LY42025-001C	←	←	915	LY43725-001D	←
SLANT POLE ARM ASSY	416	LY31535-001F	←	←	916	LYH40269-001A	←
TU ARM ASSY	417	LY42031-001G*	LY42031-001K	←	917	LY43731-001F	←
SWING ARM ASSY	418	LY31531-001D	←	←	918	←	←
MINI SCREW	419	YQ43893	←	←	919	←	←
SLIDE DECK FINAL ASSY	420	LY20530-003B*	LY20530-003E	←	920	LYH30424-001A	←

Part Name	Symbol No.	Part No.	Part No.	Part No.	Symbol No.	Part No.	Patr No.
MINI SCREW,X2	421	YQ43893	←	←	921	←	←
MINI SCREW	422	LY43023-001A	←	←	922	←	←
PAD ARM ASSY	424	LY31533-001E	←	←	924	LYH30419-001A	←
SLIT WASHER	425	YQ44246	←	←	925	←	←
TU BRAKE ASSY	428	LY42016-001B	←	←	928	LYH40270-001A	←
SLIT WASHER	429	YQ44246	←	←	929	←	←
TENSION CONTROL LEVER ASSY	430	LY41959-001B	←	←	930	LY43684-001A	←
CENTER GEAR	431	LY31525-001B	←	←	931	LY32861-001A	←
PINCH ROLLER ARM FINAL ASSY	432	LY31516-001E	←	LY31516-001F	932	←	←
SLIT WASHER	433	YQ44246	←	←	933	←	←
TENSION CONTROL PLATE ASSY	434	LY41956-001C	←	←	934	LY43681-001A	←
BRAKE CONTROL LEVER ASSY	435	LY41962-001B*	LY41962-001C	←	935	LY43687-001A	←
MOTOR BRACKET ASSY	436	LY20525-002C	←	←	936	LYH30421-001A	←
LOADING MOTOR	436A	QAR0138-001	←	←	936A	←	←
TAPPING SCREW,x2	436B	LY41940-001A	←	←	936B	←	←
MINI SCREW,x3	437	YQ43893	←	←	937	←	←
GUIDE RAIL ASSY	438	LY20528-001R*	LY20528-001U	←	938	LYH30422-001A	←
MINI SCREW	439	YQ43893	←	←	939	←	←
SLIT WASHER,X2	440	YQ44246	←	←	940	←	←
SLIDE LEVER2 ASSY	441	LY31498-001C	←	LY31498-001D	941	LY32843-001A	←
LOADING PLATE ASSY	442	LY41965-001A	←	←	942	LY43690-001A	←
SLIT WASHER	443	YQ44246	←	←	943	←	←
EJECT LEVER	444	LY31522-001B	←	←	944	LY32858-001A	←
SLIT WASHER	445	YQ44246	←	←	945	←	←
BASE R ASSY	446	LY41929-001E*	LY41929-001F	←	946	LYH40271-001A	←
MINI SCREW	447	YQ43893	←	←	947	←	←
MINI SCREW	448	LY41945-001B	←	←	948	←	←
MODE GEAR	449	LY41930-001A	←	←	949	LY43665-001A	←
ROTARY ENCODER	450	QSW0876-003	←	←	950	←	←
MINI SCREW,X2	451	YQ43893	←	←	951	←	←
GEAR COVER ASSY	452	LY31524-001A	←	←	952	LY32860-001A	←
MINI SCREW,X2	453	YQ43893	←	←	953	←	←
MINI SCREW	454	YQ43893-4	←	←	954	←	←
MAIN CAM ASSY	455	LY41948-001C	←	←	955	LY43676-001A	←
SLIDE ARM ASSY	456	LY41941-001B	←	←	956	←	←
CONNECT GEAR 2	457	LY41951-001B	←	←	957	LY43678-001A	←
SUB CAM ASSY	458	LY41954-001B	←	LY41954-001E	958	←	←
MINI SCREW	459	LY42120-001A	←	←	959	←	←
CONTROL ARM ASSY	460	LY41952-001A	←	←	960	LY43692-001A	←
REEL GEAR 1	461	LY31523-001B	←	←	961	LY32859-001A	←
DRUM BASE ASSY	462	LY31508-002A*	LY31508-002B	LY33372-001A	962	LY31508-002B	←
SCREW,X3	463	QYSPSPU1425M	←	←	963	←	←
CAPSTAN MOTOR	464	QAR0142-001	←	←	964	←	←
MINI SCREW	465	YQ43893	←	←	965	←	←
MAIN DECK ASSY	466	LY10210-001D*	LY10210-001G	←	966	LY10367-001D*	LY10367-001E
SLIT WASHER	476	YQ44246	←	←	976	←	←
SLIT WASHER	477	-	-	-	977	YQ44246-6	-
WASHER	478	-	-	-	978	LY42047-005A	←
SPACER	479	-*	LY43987-001B	←	979	←	←

NOTE:

MARK ← is same as left.
MARK - is not used.
MARK * reference model was also changed.
MARK ** shows different parts number, depending on models.

3.2 VHS-C MECHANISM ASSEMBLY



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	YTU94027	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

Fig.3-2-1

3.2.1 VHS-C MECHANISM ASSEMBLY PARTS LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.

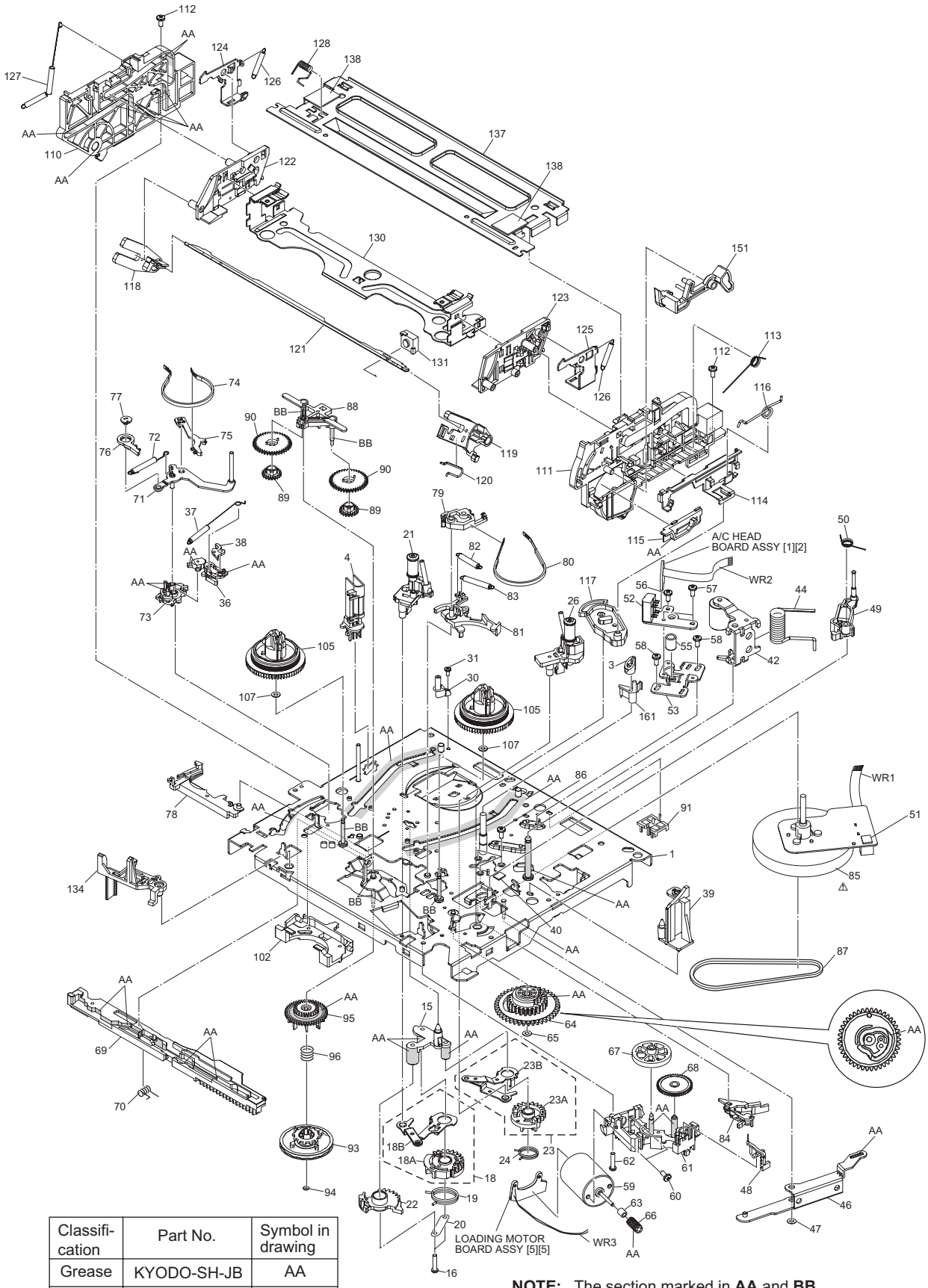
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.	Part No.
MECHA(B) ASSY	400	YMA0033A-E	YMA0042A-E	YMA0034A-E	YMA0036A-E	YMA0040A-E
MAIN DECK ASSY	401	LY20612-001B	←	←	←	←
CASSETTE GUIDE (LEFT)	402	LY31817-001A	←	←	←	←
SW LEVER (LEFT)	403	LY31815-001A	←	←	←	←
TORSION SPRING	404	LY42581-001A	←	←	←	←
SCREW	405	LY42722-001A	←	←	←	←
CASSETTE GUIDE ASSY(RIGHT)	406	-	-	YQ44339A-7	←	←
SW.LEVER(RIGHT)	406A	-	-	YQ32162-1-3	←	←
TORSION SPRING	406B	-	-	YQ44340-1-4	←	←
SCREW	407	-	-	LY42819-001A	←	←
MOTOR BRACKET ASSY	408	LY31826-001A	←	←	←	←
WORM BRACKET	409	YQ20793	LY20951-001A	YQ20793	←	LY20951-001A
SCREW,X3	410	LY42722-001A	←	←	←	←
WHEEL GEAR	411	LY31925-001A	←	←	←	←
MIDDLE GEAR	412	LY42730-001A	←	←	←	←
CANCEL LEVER ASSY	413	LY42521-001A	←	←	←	←
SLIT WASHER,X2	414	LY42754-003A	←	←	←	←
CONTROL CAM	415	YQ20827-2-1	←	←	←	←
SLIT WASHER	416	PQM30017-25	←	←	←	←
LOADING GEAR(T)ASSY	417	LY42733-001A	←	←	←	←
SLIT WASHER	418	LY42754-003A	←	←	←	←
LOADING GEAR(S)ASSY	419	LY42732-001A	←	←	←	←
SLIT WASHER	420	LY42754-003A	←	←	←	←
COVER PLATE	421	LY42403-001A	←	←	←	←
LOADING RING ASSY	422	LY42452-001A	←	←	←	←
SCREW,X4	423	LY42728-001A	←	←	←	←
GUIDE RAIL	424	LY10239-001A	←	←	←	←
SCREW,X8 or X7	425	LY42728-001A,(X8)	←,(X7)	←,(X8)	←,(X8)	←,(X7)
POLE BASE(S)ASSY	426	LY30161-001B	←	←	←	←
POLE BASE(T)ASSY	427	LY30162-002A	←	←	←	←
DRIVE LEVER ASSY	428	LY42523-001A	←	←	←	←
SLANT ARM ASSY	429	LY42545-001B	LY44000-001B	LY42545-001B	←	LY44000-001B
TORSION SPRING(S)	429A	LY42547-001A	LY43992-001A	LY42547-001A	←	LY43992-001A
SLIT WASHER	430	LY42754-003A	←	←	←	←
ROLLER BASE ASSY	431	LY42739-003A	←	←	←	←
SCREW	432	LY42722-001A	←	←	←	←
LINK ARM ASSY	433	LY42494-001A	←	←	←	←
SLIT WASHER	434	PQM30017-25	←	←	←	←
PINCH ROLLER ARM ASSY	435	LY40018-002A	←	←	LY40018-005A	←
SLIT WASHER	436	PQM30017-25	←	←	←	←
TAKE UP GUIDE ARM ASSY	437	LY42541-001B	←	←	←	←
SLIT WASHER	438	LY42754-003A	←	←	←	←
TENSION ARM ASSY	439	LY42571-001A	←	←	←	←
TENSION SPRING	439A	LY42669-001A	←	←	←	←
SLIT WASHER	440	LY42754-003A	←	←	←	←
MOTOR BASE	441	YQ20797-1-5	←	←	←	←
SCREW,X2	442	LY42722-001A	←	←	←	←
SCREW	443	YQ44460	←	←	←	←
CAPSTAN MOTOR	444	QAR0212-001	QAR0212-002	QAR0212-001	QAR0212-002	←
TAPPING SCREW,X3	445	YQ44304	←	←	←	←
SLANT POLE BASE ASSY	446	LY42731-001A	←	←	←	←
TAPPING SCREW	447	YQ44304	←	←	←	←
TIMING BELT	448	YQ43710-2	←	←	←	←
CENTER PULLEY UNIT	449	LY42678-001A	←	←	←	LY42678-003A

Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.	Part No.
SCREW,X2	450	LY42722-002A	←	←	←	←
SUPPLY CLUTCH ASSY	451	LY42670-001A	←	←	←	←
SLIT WASHER	452	LY42754-003A	←	←	←	←
REEL DISC	453	YQ31861-1-7	←	←	←	←
WASHER	454	LY42755-001A	←	←	←	←
TAKE UP GEAR	455	LY31924-001A	←	←	←	←
BRAKE SUB GEAR	456	LY42738-001A	←	←	←	←
SLIT WASHER,X3	457	LY42754-003A	←	←	←	←
A/C HEAD UNIT	458	LY42544-001B	LY42544-002A	LY42544-001B	←	LY42544-002A
SCREW,X2	459	SPSN1750Z	←	←	←	←
EJECT LEVER ASSY	460	LY42517-001A	←	←	←	←
SLIT WASHER	461	LY42754-003A	←	←	←	←
LED GUIDE	462	YQ31833-1-1	←	←	←	←
SCREW	463	LY42722-001A	←	←	←	←
DRUM SPACER	464	LY42729-001A	←	←	←	←
SCREW,X2	465	LY42722-001A	←	←	←	←
ROTARY ENCODER	466	QSW0888-001	←	QSW0888-002	←	←
SCREW,X4	467	LY42722-002A	←	←	←	←
LINK LEVER	468	LY31814-001A	←	←	←	←
DRUM FINAL ASSY	469	**	**	**	**	**
CATCHER	469A	YDM1003-1-5	←	←	←	←
SCREW,X2	469B	QYSPSPU1735M	←	←	←	←
SCREW,X2	470	LY42722-001A	←	←	←	←
SCREW,X2	471	SPSH1740Z	←	←	←	←
BRUSH	472	LY43542-001A	←	←	←	←
SCREW	473	LY42722-003A	←	←	←	←
CASSETTE HOUSING FINAL ASSY	*155/481	LY31808-001C	LY31808-002C	LY31808-001C	LY31808-001D	LY31808-002C
SCREW,X4	*156/482	LY42722-003A	←	←	←	←
BRACKET(MECHA)	*161/484	LY32326-001A	←	←	←	←
SCREW,X2	*162/485	LY42722-003A	←	←	←	←
SIDE BRACKET L	*164/487	LY31807-001A	←	←	←	←
SCREW	*165/488	LY42722-003A	←	←	←	←

NOTE:

MARK ← is same as left.
MARK - is not used.
MARK * are shown in the parts list of FINAL ASSY of service manual of each model.
MARK ** shows different parts number, depending on models.

3.3 VHS MECHANISM ASSEMBLY



Classification	Part No.	Symbol in drawing
Grease	KYODO-SH-JB	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in **AA** and **BB** indicate lubrication and greasing areas.

Fig.3-3-1

3.3.1 VHS MECHANISM ASSEMBLY PARTS LIST

- Since parts numbers described here are the numbers at the time of manualissue, they are subject to change without notice. Therefore, be sure to see a parts list in the service manual of each model as for parts numbers.

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
MAIN DECK ASSY	1	LP21039-001N	LP21039-001S	LP21039-001R	LP21039-001S
GUIDE POLE CAP	3	LP40097-002D	←	←	←
FULL ERASE HEAD	4	QAH0082-001	←	←	←
LOAD.GEAR BASE	15	LP30958-001B	←	←	←
SCREW,X2	16	QYTPST2620Z	←	←	←
LORD.GEAR(SUPPLY) ASSY	18	LP40798-001A	←	←	←
LORD.GEAR(SUPPLY)	18A	LP21040-001A	←	←	←
LORD.ARM(SUPPLY) ASSY	18B	LP40799-001A	←	←	←
TORSION SPRING(SUPPLY)	19	LP40837-001A	←	←	←
FIXING PLATE	20	LP40903-001A	←	←	←
POLE BASE ASSY(SUPPLY)	21	LP40806-001D	←	←	←
LOAD GEAR	22	LP30959-002A	←	←	←
LORD. GEAR(TAKE UP) ASSY	23	LP40802-001B	LP40802-001C	LP40802-001B	LP40802-001C
LORD. GEAR(TAKE UP)	23A	LP21041-001B	LP21041-001C	LP21041-001B	LP21041-001C
LORD.ARM(TAKE UP) ASSY	23B	LP40803-001A	←	←	←
TORSION SPRING(TAKE UP)	24	LP40838-001A	←	←	←
POLE BASE ASSY(TAKE UP)	26	LP40808-001F	LP40808-001E	←	←
ARM BASE	30	-	←	LP31020-004A	←
SCREW	31	-	←	QYTDST2606Z	-
TU LEVER	36	LP21055-001E	←	←	←
TENSION SPRING	37	LP40943-001A	←	←	←
T-UP HEAD	38	LP40859-001D	←	←	←
LID GUIDE	39	LP30961-001C	←	←	←
SPACER	40	LP30002-0B7A	←	←	-
PINCH ROLLER ARM ASSY	42	LP40810-001A	←	←	←
TORSION SPRING	44	LP40840-001C	LP40840-001D	←	←
PRESS LEVER	46	LP30963-001B	←	←	←
SLIT WASHER	47	PQM30017-24	←	←	←
S-SWITCH	48	-	←	LP40930-002E	←
GIDE ARM ASSY	49	LP40813-001D	←	←	←
TORSION SPRING	50	LP40841-001A	←	←	←
SPACER	51	LP30002-090A	←	←	-
A/C HEAD	52	QAH0081-001	←	←	←
HEAD BASE	53	LP30965-001A	←	←	←
COMPRESSION SPRING	55	LP40842-001A	LP40842-001D	LP40842-001A	LP40842-001D
SCREWX1 A/C HEAD	*56	QYTDST2006M	←	←	←
A/C HEAD SCREW,X2	*57	LP41036-001A	←	←	←
SCREW,X2 A/C HEAD	*58	QYTDST2606Z	←	←	←
LOADING MOTOR	59	QAR0023-001	←	←	←
SCREW,X2	60	QYTPSP3003Z	←	←	←
MOTOR BRACKET	61	LP21056-002F	LP21056-002G	←	←
TAP SCREW	62	QYTPST2620Z	←	←	←
WORM BEARING	63	LP40814-001B	←	←	←
CONTROL CAM	64	LP21044-001D	←	←	←
SLIT WASHER	65	PQM30017-24	←	←	←
WORM GEAR	66	LP40815-001A	←	←	←
HELICAL GEAR	67	LP40816-001B	←	←	←
CONNECT GEAR	68	LP40817-001A	←	←	←

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
CONTROL PLATE	69	LP10400-001H	←	←	LP10400-001J
TORTION SPRING	70	LP40843-001A	←	←	←
TENSION ARM ASSY	71	LP40818-001B	←	←	←
TENSION SPRING	72	LP40844-001C	LP40844-001E	LP40844-001D	LP40844-001E
TENSION ARM BASE	73	LP21045-001D	←	←	←
TENSION BAND ASSY	74	LP40821-001A	←	←	←
BAND HOLDER-1	75	LP30967-001B	←	←	←
BAND HOLDER-2	76	LP30968-001C	←	←	←
ADJUST PIN	77	LP40822-002B	←	←	←
TENSION ARM LEVER	78	LP31000-005E	←	←	←
MAIN BRAKE(TAKE UP)	79	LP21046-001C	←	←	←
BAND BRAKE ASSY	80	LP40824-001A	←	←	←
BRAKE LEVER	81	LP30969-002A	LP30969-002B	LP30969-002A	LP30969-002B
TENSION SPRING	82	LP30003-033B	←	←	←
TENSION SPRING	83	LP30003-035B	←	←	←
CAPSTAN BRAKE ASSY	84	LP40825-001B	←	←	←
CAPSTAN MOTOR	85	QAR0204-002	←	←	←
SCREW,X3 CAPSTAN MOTOR	86	QYTPSG2606M	QYTPSG2606Z	QYTPSG2606M	QYTPSG2606Z
BELTCAPSTAN MOTOR	87	LP30005-010A	←	←	←
IDLER ARM	88	LP30970-001A	←	←	←
IDLER GEAR 1,X2	89	LP40828-004A	←	←	←
IDLER GEAR 2,X2	90	LP40829-001B	LP40829-002A	LP40829-001B	LP40829-002A
WIRE HOLDER	91	LP31014-001A	←	←	←
CLUTCH UNIT	93	LP40934-001B	←	←	←
SLIT WASHER	94	PQM30017-47	←	←	←
DIRECT GEAR	95	LP30973-001A	←	←	←
COMPRESS. SPRING	96	LP40939-001A	←	←	←
CHANGE LEVER	102	LP30974-001B	←	←	←
REEL DISK,X2	105	LP21049-001A	←	←	←
SPACER,X2	107	LP30017-004A	←	←	←
SIDE FRAME(L)	110	LP10401-001F	LP10401-001H	LP10401-001F	LP10401-001H
SIDE FRAME(R)	111	LP10402-001F	LP10402-001K	LP10402-001G	LP10402-001K
SCREW,X2	112	QYTDST2606Z	←	←	←
TORSION SPRING	113	LP40917-001C	LP40917-001D	←	←
SIDE PLATE	114	LP30976-001D	LP30976-001E	←	←
LIMIT PLATE	115	LP30977-002D	←	←	←
LIMIT SPRING	116	LP40846-001C	←	←	←
DRIVE LEVER	117	LP31100-001B	←	←	←
DRIVE ARM(L)	118	LP30978-001B	←	←	←
DRIVE ARM(R)	119	LP30979-001H	LP30979-001N	LP30979-001H	LP30979-001N
TORSION SPRING	120	LP40847-001B	←	←	←
CONNECT PLATE	121	LP30980-001A	LP30980-001E	LP30980-001B	LP30980-001E
SIDE HOLDER(L)	122	LP10403-001C	←	←	←
SIDE HOLDER(R)	123	LP10404-001D	LP10404-001E	←	←
LOCK LEVER(L)	124	LP30983-001A	LP30983-001B	LP30983-001A	LP30983-001B
LOCK LEVER(R)	125	LP30984-001A	LP30984-001B	LP30984-001A	LP30984-001B
TENSION SPRING,X2	126	LP40924-001C	LP40924-001D	←	←
EARTH SPRING(1)	127	LP40856-001A	←	LP40856-001B	LP40972-001A
EARTH SPRING(2)	128	LP40857-001B	←	←	←
C.HOLDER ASSY	130	LP30981-001E	LP30981-001G	LP30981-001F	LP30981-001G
C.H STOPPER	131	LP31135-001A	-	LP31135-001A	-

System		VHS		S-VHS	
**Job No.		V15D Series	V16D Series	V15S Series	V16S Series
Part Name	Symbol No.	Part No.	Part No.	Part No.	Part No.
R.SAFETY LEVER	134	LP21051-002C	←	←	←
TOP FRAME	137	LP21052-001F	LP21052-001J	LP21052-001H	LP21052-001J
SPACER	138	LP30002-0A7A	-	LP30002-0A7A	-
DOOR OPENER	151	LP30985-001G	←	←	←
TAPE GUIDE	161	-	LP40993-001A	-	LP40993-001A
E-CARD WIRE DRUM.M	WR1	WJT0059-001C	WJT0059-001E	WJT0059-001D	WJT0059-001E
E-CARD WIRE AC HEAD CN2001	WR2	WJT0067-001B	←	←	←
E-FL/RB WIRE LOADING MOTOR	WR3	WJS0022-001A	←	←	←
MEMO	-	PMD0035B-C	PMD0040A-C	PMD0036B-C /PMD0039A-C	PMD0037A-C /PMD0041A-C

NOTE:

MARK ← is same as left.
MARK - is not used.
MARK * shows that Symbol No. and Parts No. may sometimes be different from those in each manual. See the table below for final Symbol No. and Parts No.
MARK ** is Job No.
To identify a model, see the Job No. of the model.
Job No. is shown just above the service manual number at the lower right of the service manual of each model.